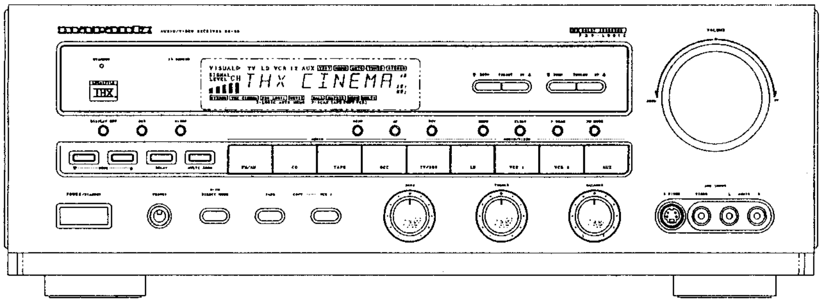
Service Manual

74 SR96/02B
SR-96 U, K, KK
Audio/Video Receiver



The following marks found in the parts list of this manual identify the models as follows.
Please confirm the product serial number before repair.

Example : MZ01 9642 02 0025

Service Code   Lot Number

[TACT] :Service Code MZ00 - MZ04 (Lot No. 01 - 13)
(with Tact type mains switch)

[MOMS] :Service Code MZ05 or later (Lot No. 14 or later)
(with Manual Operated Mechanical type mains switch)

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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

model SR-96

4822 725 51134
First Issue 1997.03
261J[illegible]5010 ACT

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA
MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172- 2330
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

CANADA
LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 416-831-6333
FAX : 416-831-6936

EUROPE
MARANTZ EUROPE B.V.
P.O.BOX 80002
BUILDING SFF2
5600 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

PROFESSIONAL USA
SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
1000 CORPORATE BLVD., SUITE D
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL CANADA
TC ELECTRONICS CANADA LTD
540 FIRING AVE.
BAIE D'URFÉ, QUEBEC H9X 3T2
CANADA
PHONE : 514 - 457 - 4044
FAX : 514 - 457 - 5524

TRADING
MARANTZ EUROPE B,V,
P.O,BOX 80002
BUILDING SFF2
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THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

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Homebush, NSW2140 AUSTRALIA
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FAX : +61 2 764 3074

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MARANTZ BRAZIL
Caixa Postal 21462
CEP 04698-970
Sao Paulo, SP, BRAZIL
PHONE : 0800 - 123123 (Discagem Direta Gratuita)
FAX : +55 11 534. 8988

HONG KONG
FORWARD INTERNATIONAL CORP.LTD.
15 TH FLOOR, REGENT CENTRE,
88 QUEEN'S ROAD, CENTRAL, H. K,
PHONE : +852 521 - 0883
FAX : +852 521 - 7835

TAIWAN
PAI- YUING CO,, LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 (2) 5221304 - 8
FAX : +886 (2) 5630415

THAILAND
MRZ STANDARD CO,, LTD,
746 - 750 WANGBURAPA BANGKOK
10200 THAILAND
PHONE : +66 2222 9181
FAX : +66 2225 8871

MALAYSIA
WO KEE HONG ELECTRONICS SDN. BHD.
NO. I 02 JALAN SS 21/35, DAMANSARA
UTAMA, 47400 PETALING JAYA
SELANGOR DARUL EHSAN,
MA LAYS IA
PHONE : +60 3 - 7184666
FAX : +60 3 - 7173828

JAPAN *Technical*
MARANTZ JAPAN INC.
35- I , 7- chome, Sagamiono
Sagamihara ~ shi, Kanagawa
Japan
PHONE : +81 427 44 7950
FAX : +81 427 48 0889

日本マランツ株式会社
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神奈川県相模原市相模大野 7 - 35 - 1
営業本部 〒150
東京都渋谷区恵比寿南 1 - 11 - 9

SINGAPORE
FORWARD MARKETING (SINGAPORE) PTE. LTD.
29, LENG KEE ROAD
SINGAPORE I 59099,
PHONE : +65 475 - 4555
FAX : +65 475 - 8623

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref.. UL Standard N0. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

970214KI

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	87.5 – 108.0 MHz
Usable Sensitivity	IHF 1.3μV/13.5 dBf
Signal to Noise Ratio	Mono/Stereo 76/68 dB
Distortion	Mono/Stereo 0.2 / 0.5%
Stereo Separation	1 kHz 40 dB
Alternate Channel Selectivity	±400 kHz 65 dB (U version) ±300 kHz 65 dB (/02B version)
Image Rejection	98 MHz 50dB (U version) 98 MHz 70 dB (/02B version)
Tuner Output Level	1 kHz, ±75 kHz Dev 800mV (U version) 1 kHz, ±40 kHz Dev 800mV (/02B version)

AM TUNER SECTION

Frequency Range	520 – 1710 kHz (U version) MW: 531 – 1602 kHz (/02B version) LW : 152 – 282 kHz (/02B version)
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 500 μV
Distortion	1 kHz, 30% Mod. 0.5%
Selectivity	±20 kHz 70 dB (U version) ±18 kHz 70 dB (/02B version)

AUDIO SECTION

Rated Power	
Stereo Mode FRONT (20 Hz – 20 kHz)	8 ohms 110W / Ch (2ch driven)
(Main in) Center (40 Hz – 20 kHz)	8 ohms 110W / Ch
(Main in) Surround (40 Hz – 20 kHz)	8 ohms 90W / Ch
THD Front (20 Hz – 20 kHz)	8 ohms 0.05%
Input Sensitivity/Impedance	
Linear	220mV/40 kohms
Front Main In	1.5 V/20 kohms
Center Main In	1.5 V/20 kohms
Surround Main In	1.0 V/20 kohms
Signal to Noise Rate (IHF A)	
Linear	82 dB
Dolby Surround Adjacent Channels Separation	50 dB

VIDEO

Television Format	NTSC (U version) PAL/NTSC/SECAM (/02B version)
Input Level/Impedance	1Vp-p/75 ohms
Output Level/Impedance	1Vp-p/75 ohms
Video Frequency Response	5 Hz to 7 MHz (- 3 dB)
S/N	63 dB

GENERAL

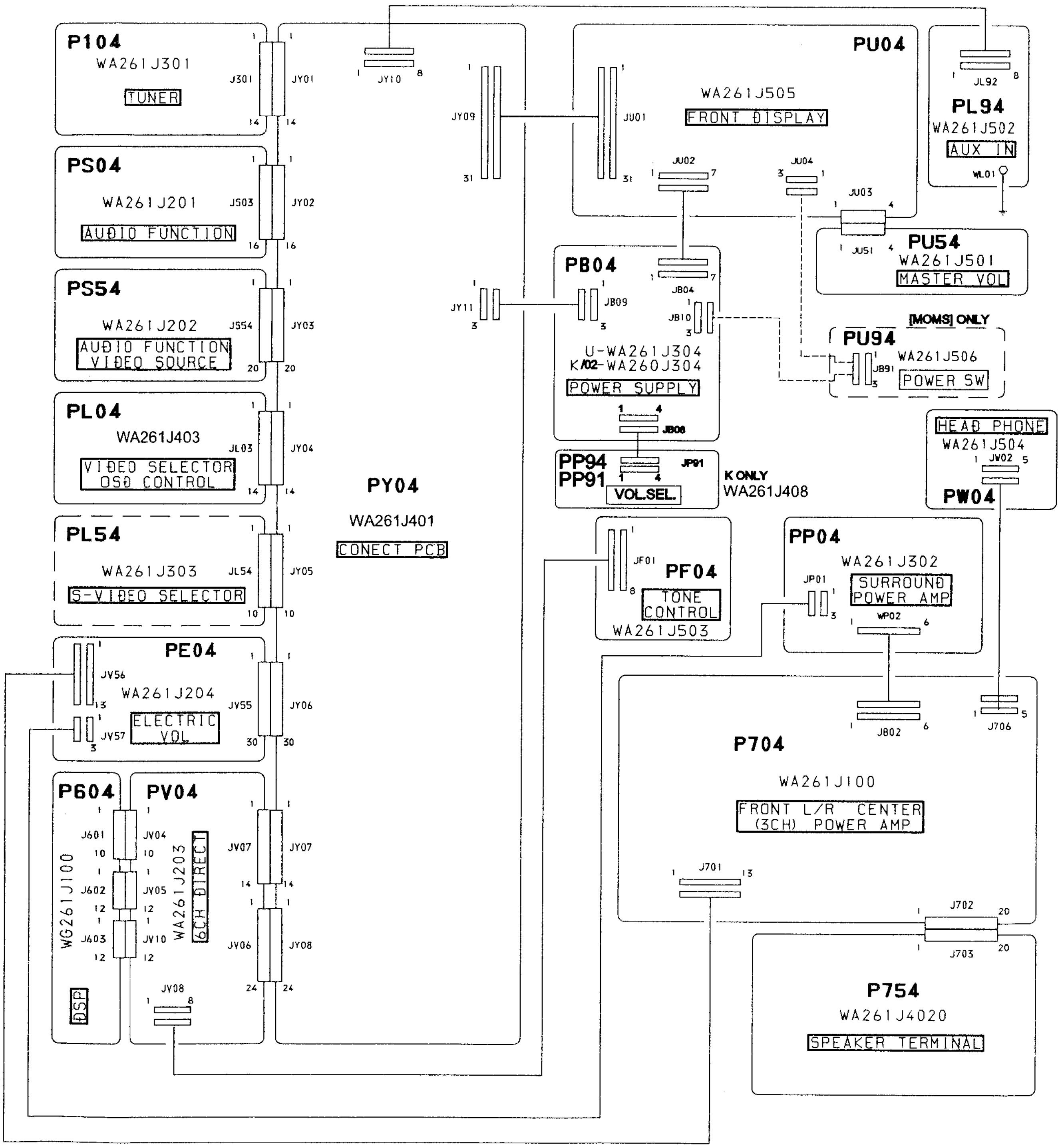
Power Requirement	AC 120V 60 Hz (U version) AC 230V 50 Hz (/02B version)
Power Consumption	700W
Dimension (MAX)	
Width	17-¼ inches (439 mm)
Height	6-¼ inches (158 mm)
Depth	18 inches (458 mm)
Weight	31.7lbs. (14.4 kg)

ACCESSORIES

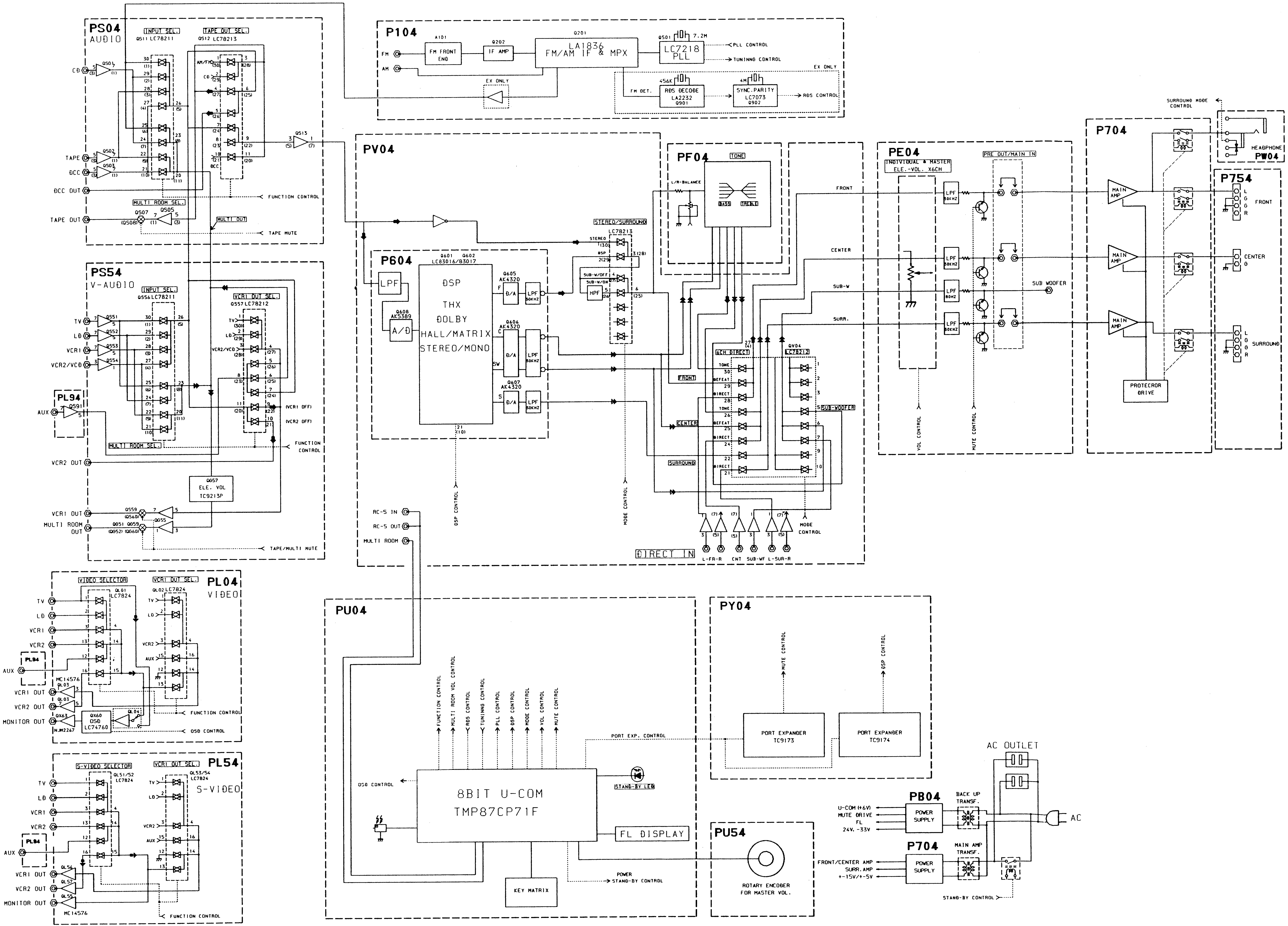
Remote Control Unit RC2000 (U version)	1
Remote Control Unit RC-96SR (/02B version)	1
AA-size batteries (U version)	4
AAA-size batteries (/02B version)	2
FM Feeder Antenna	1
FM Antenna Converter (U version only)	1
AM Loop Antenna	1

Specifications subject to change without prior notice.

2. WIRING DIAGRAM


P104
WA261J301
TUNER
J301
JY01
JY10
JY09
JU01
PU04
WA261J505
FRONT DISPLAY
JL92
PL94
WA261J502
AUX IN
WL01
PS04
WA261J201
AUDIO FUNCTION
JS03
JY02
JU02
JU04
JU03
JU51
PU54
WA261J501
MASTER VOL
PS54
WA261J202
AUDIO FUNCTION
VIDEO SOURCE
JS54
JY03
PB04
JB04
JY11
JB09
JB10
[MOMS] ONLY
PU94
WA261J506
JB91
POWER SW
U-WA261J304
K/02-WA260J304
POWER SUPPLY
JB08
PL04
WA261J403
VIDEO SELECTOR
OSD CONTROL
JL03
JY04
PY04
WA261J401
CONECT PCB
PP94
PP91
JP91
VOL.SEL.
K ONLY
WA261J408
HEAD PHONE
WA261J504
JW02
PW04
PL54
WA261J303
S-VIDEO SELECTOR
JL54
JY05
JF01
PF04
TONE
CONTROL
WA261J503
PP04
WA261J302
JP01
SURROUND
POWER AMP
WP02
PE04
JV56
WA261J204
JV55
JY06
ELECTRIC
VOL
JV57
J802
J706
P704
WA261J100
FRONT L/R CENTER
(3CH) POWER AMP
P604
PV04
J601
JV04
J602
JV05
J603
JV10
WG261J100
WA261J203
6CH DIRECT
JV07
JY07
JV06
JY08
JV08
DSP
J701
J702
J703
P754
WA261J4020
SPEAKER TERMINAL

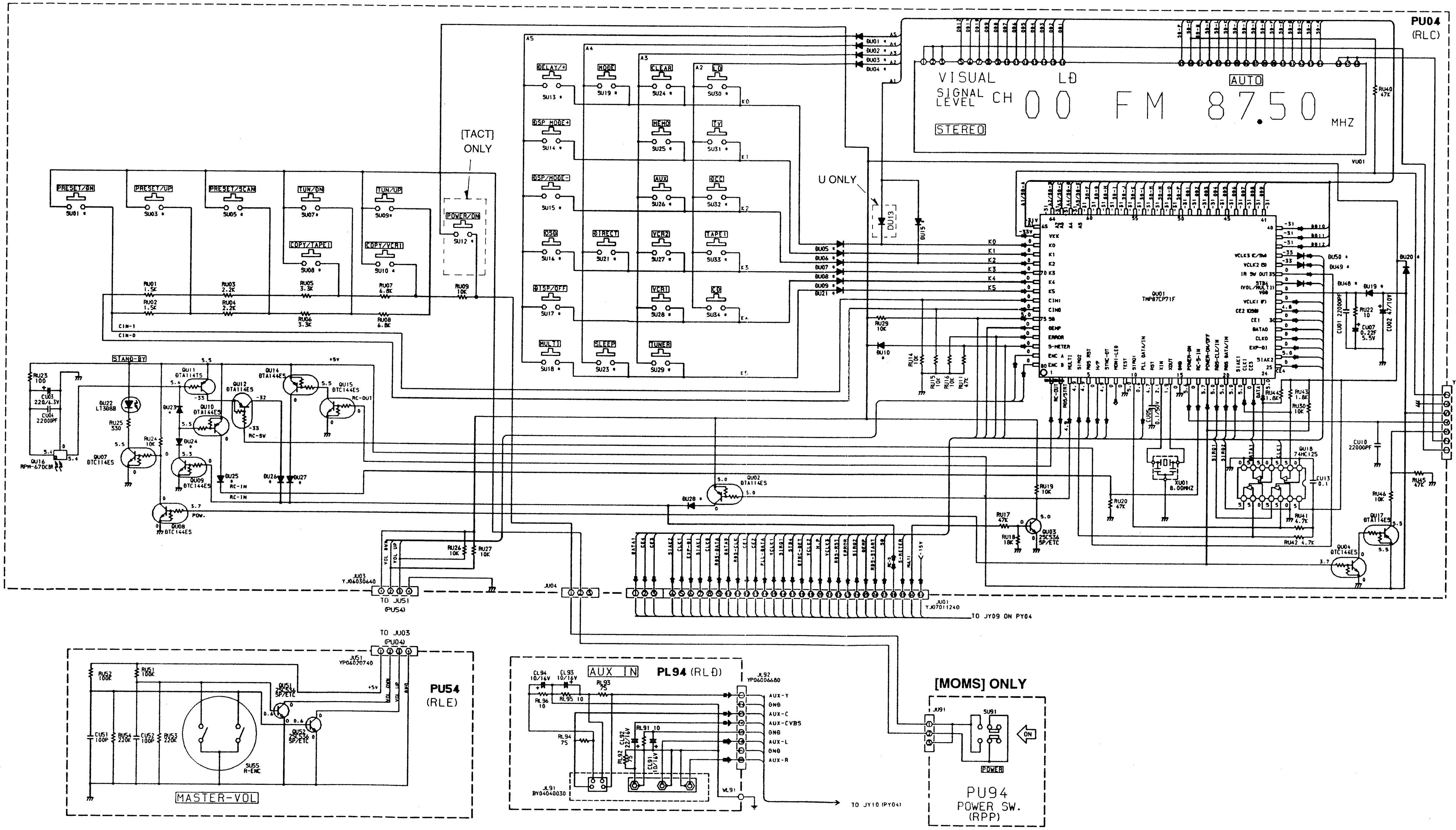
3. BLOCK DIAGRAM



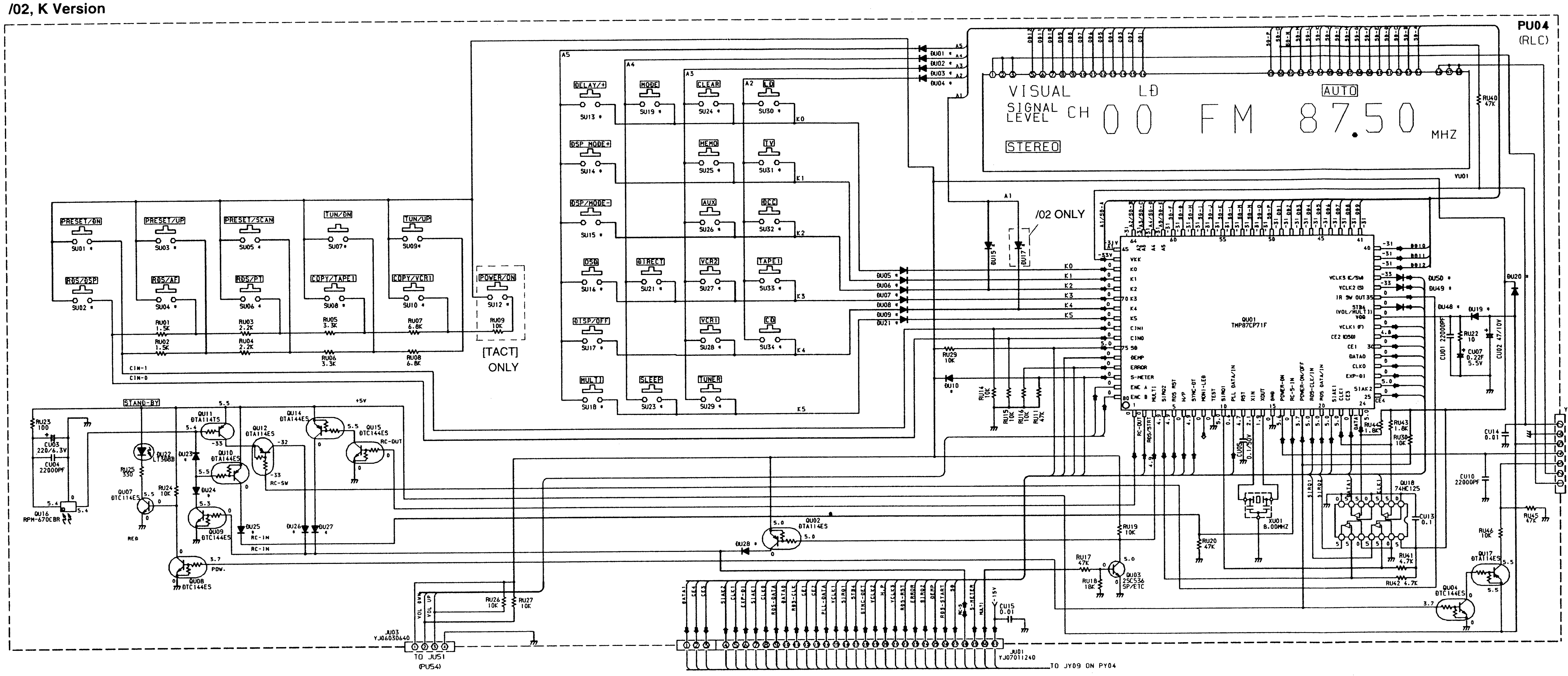
PS04
AUDIO
INPUT SEL.
Q511 LC78211
TAPE OUT SEL.
Q512 LC78213
CD
TAPE
DCC
DCC OUT
TAPE OUT
Q501
Q502
Q503
Q505
Q507
Q508
Q513
MULTI ROOM SEL.
MULTI OUT
FUNCTION CONTROL
TAPE MUTE
P104
FM
AM
A101
FM FRONT END
Q202
IF AMP
Q201
LA1836
FM/AM IF & MPX
Q501
7.2M
LC7218
PLL
PLL CONTROL
TUNINNG CONTROL
EX ONLY
FM DET.
456K
RDS DECODE
LA2232
Q901
4M
SYNC.PARITY
LC7073
Q902
RDS CONTROL
PS54
V-AUDIO
INPUT SEL.
Q556 LC78211
VCR1 OUT SEL.
Q557 LC78212
TV
LD
VCR1
VCR2/VCD
Q551
Q552
Q553
Q554
PL94
AUX
Q591
MULTI ROOM SEL.
VCR1 OFF
VCR2 OFF
FUNCTION CONTROL
VCR2 OUT
Q057
ELE. VOL
TC9213P
VCR1 OUT
MULTI ROOM OUT
Q559
Q560
Q051
Q052
Q055
Q059
Q060
TAPE/MULTI MUTE
PV04
P604
LPF
Q608
AK5389
A/D
Q601 Q602
LC83016/83017
DSP
THX
DOLBY
HALL/MATRIX
STEREO/MONO
Q605
AK4320
Q606
AK4320
Q607
AK4320
D/A
LPF 50KHZ
F
C
SW
S
DSP CONTROL
STEREO/SURROUND
LC78213
STEREO
DSP
SUB-W/OFF
SUB-W/ON
HPF
MODE CONTROL
PF04
TONE
L/R-BALANCE
BASS
TREBLE
FRONT
CENTER
SUB-W
SURR.
6CH DIRECT
QV04
LC78212
TONE
DEFEAT
DIRECT
FRONT
CENTER
SURROUND
SUB-WOOFER
MODE CONTROL
DIRECT IN
L-FR-R
CNT
SUB-WF
L-SUR-R
RC-5 IN
RC-5 OUT
MULTI ROOM
PE04
INDIVIDUAL & MASTER ELE.-VOL. X6CH
PRE OUT/MAIN IN
LPF 50KHZ
SUB WOOFER
VOL CONTROL
MUTE CONTROL
P704
MAIN AMP
PROTECROR DRIVE
SURROUND MODE CONTROL
HEADPHONE
PW04
P754
FRONT
CENTER
SURROUND
L
G
R
PL04
VIDEO
VIDEO SELECTOR
QL01 LC7824
VCR1 OUT SEL.
QL02 LC7824
TV
LD
VCR1
VCR2
AUX
PL94
MC14576
QL03
QX63
NJM2267
QX60
OSD
LC74760
QL04
VCR1 OUT
VCR2 OUT
MONITOR OUT
FUNCTION CONTROL
OSD CONTROL
PL54
S-VIDEO
S-VIDEO SELECTOR
QL51/52 LC7824
VCR1 OUT SEL.
QL53/54 LC7824
TV
LD
VCR1
VCR2
AUX
PL94
QL54
QL57
QL55
MC14576
VCR1 OUT
VCR2 OUT
MONITOR OUT
FUNCTION CONTROL
PU04
FUNCTION CONTROL
MULTI ROOM VOL CONTROL
RDS CONTROL
TUNINNG CONTROL
PLL CONTROL
DSP CONTROL
MODE CONTROL
VOL CONTROL
MUTE CONTROL
OSD CONTROL
8BIT U-COM
TMP87CP71F
PORT EXP. CONTROL
STAND-BY LED
FL DISPLAY
KEY MATRIX
POWER STAND-BY CONTROL
PY04
MUTE CONTROL
DSP CONTROL
PORT EXPANDER
TC9173
PORT EXPANDER
TC9174
PU54
ROTARY ENCODER FOR MASTER VOL.
AC OUTLET
PB04
U-COM (+6V)
MUTE DRIVE
FL
24V, -33V
POWER SUPPLY
BACK UP TRANSF.
AC
P704
FRONT/CENTER AMP
SURR. AMP
+-15V/+-5V
POWER SUPPLY
MAIN AMP TRANSF.
STAND-BY CONTROL

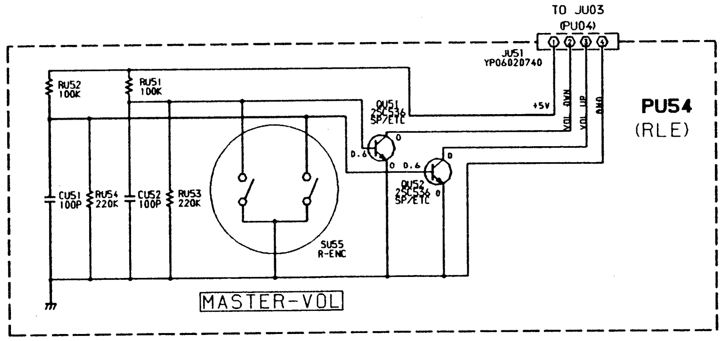
4. SCHEMATIC DIAGRAM AND PARTS LOCATION

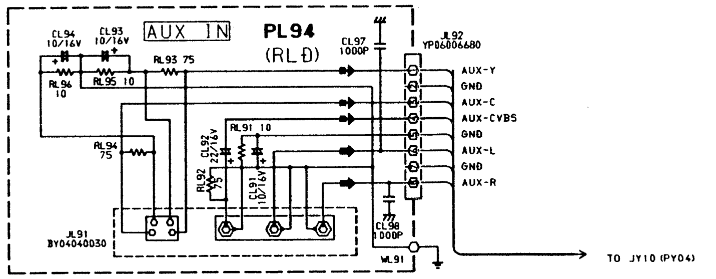
U, KK Version


PU04
(RLC)
[TACT]
ONLY
U ONLY
PRESET/DN
PRESET/UP
PRESET/SCAN
TUN/DN
TUN/UP
POWER/ON
COPY/TAPE1
COPY/VCR1
DELAY/+
MODE
CLEAR
LD
DSP MODE+
MEMO
TV
DSP/MODE-
AUX
ACC
DSP
DIRECT
VCR2
TAPE1
DISP/OFF
VCR1
CD
MULTI
SLEEP
TUNER
STAND-BY
VISUAL
LD
AUTO
SIGNAL
LEVEL
CH
00 FM 87.50
MHZ
STEREO
VU01
QU01
TMP87CP71F
XU01
8.00MHZ
QU18
74HC125
JU02
YP06007170
VKK
GND
+5VL
P-DOWN
POWER
F
F
TO JB04 (PB04)
JU03
YJ04050440
TO JU51
(PU54)
JU04
JU01
YJ07011240
TO JY09 ON PY04
TO JU03
(PU04)
JU51
YP04020740
PU54
(RLE)
SU55
R-ENC
MASTER-VOL
AUX IN
PL94 (RLD)
JL92
YP06006680
AUX-Y
GND
AUX-C
AUX-CVBS
GND
AUX-L
GND
AUX-R
JL91
BY04040030
WL91
TO JY10 (PY04)
[MOMS] ONLY
JU91
SU91
ON
POWER
PU94
POWER SW.
(RPP)

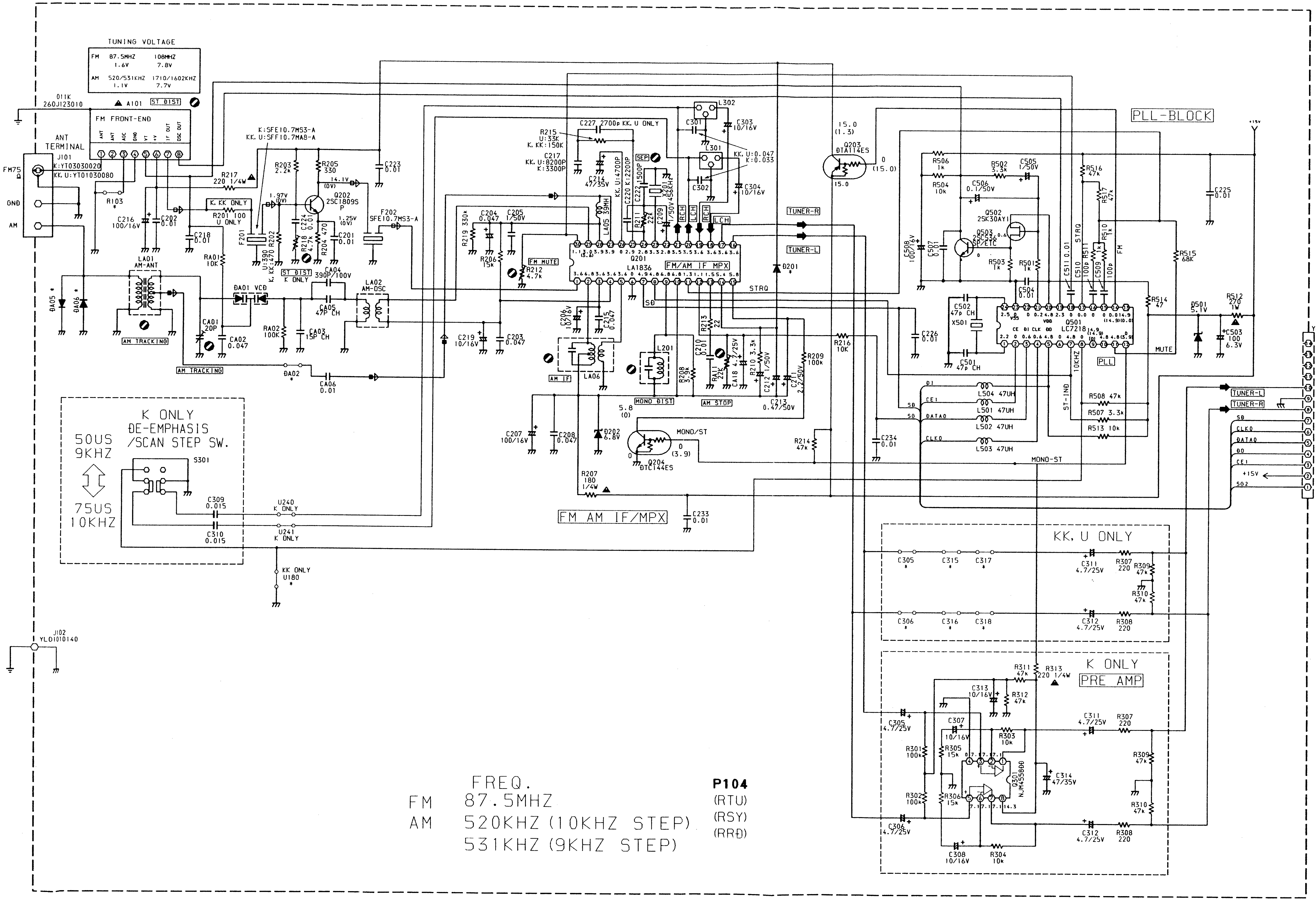
/02, K Version


PU04
(RLC)
VISUAL
SIGNAL LEVEL
CH
00
FM
87.50
MHZ
LD
AUTO
STEREO
YU01
PRESET/DN
PRESET/UP
PRESET/SCAN
TUN/DN
TUN/UP
RDS/DSP
RDS/AF
RDS/PT
COPY/TAPE1
COPY/VCR1
POWER/ON
[TACT] ONLY
DELAY/+
MODE
CLEAR
LD
DSP MODE+
MEMO
TV
DSP/MODE-
AUX
DCC
DSP
DIRECT
VCR2
TAPE1
DISP/OFF
VCR1
CD
MULTI
SLEEP
TUNER
STAND-BY
/02 ONLY
QU01
TMP87CP71F
XU01
8.00MHZ
QU18
74HC125
JU02
YP06007170
VKK
GND
+5VL
P-DOWN
POWER
F
F
TO JB04 (PB04)
JU03
YJ06030640
TO JU51
(PU54)
JU01
YJ07011240
TO JY09 ON PY04
QU16
RPM-670CBR
QU22
LT3088


TO JU03
(PU04)
JU51
YP06020740
PU54
(RLE)
RU52
100K
RU51
100K
QU51
2SC536
SP/ETC
QU52
2SC536
SP/ETC
CU51
100P
RU54
220K
CU52
100P
RU53
220K
SU55
R-ENC
MASTER-VOL


AUX IN
PL94
(RLD)
JL92
YP06006680
AUX-Y
GND
AUX-C
AUX-CVBS
GND
AUX-L
GND
AUX-R
JL91
BY04040030
WL91
TO JY10 (PY04)

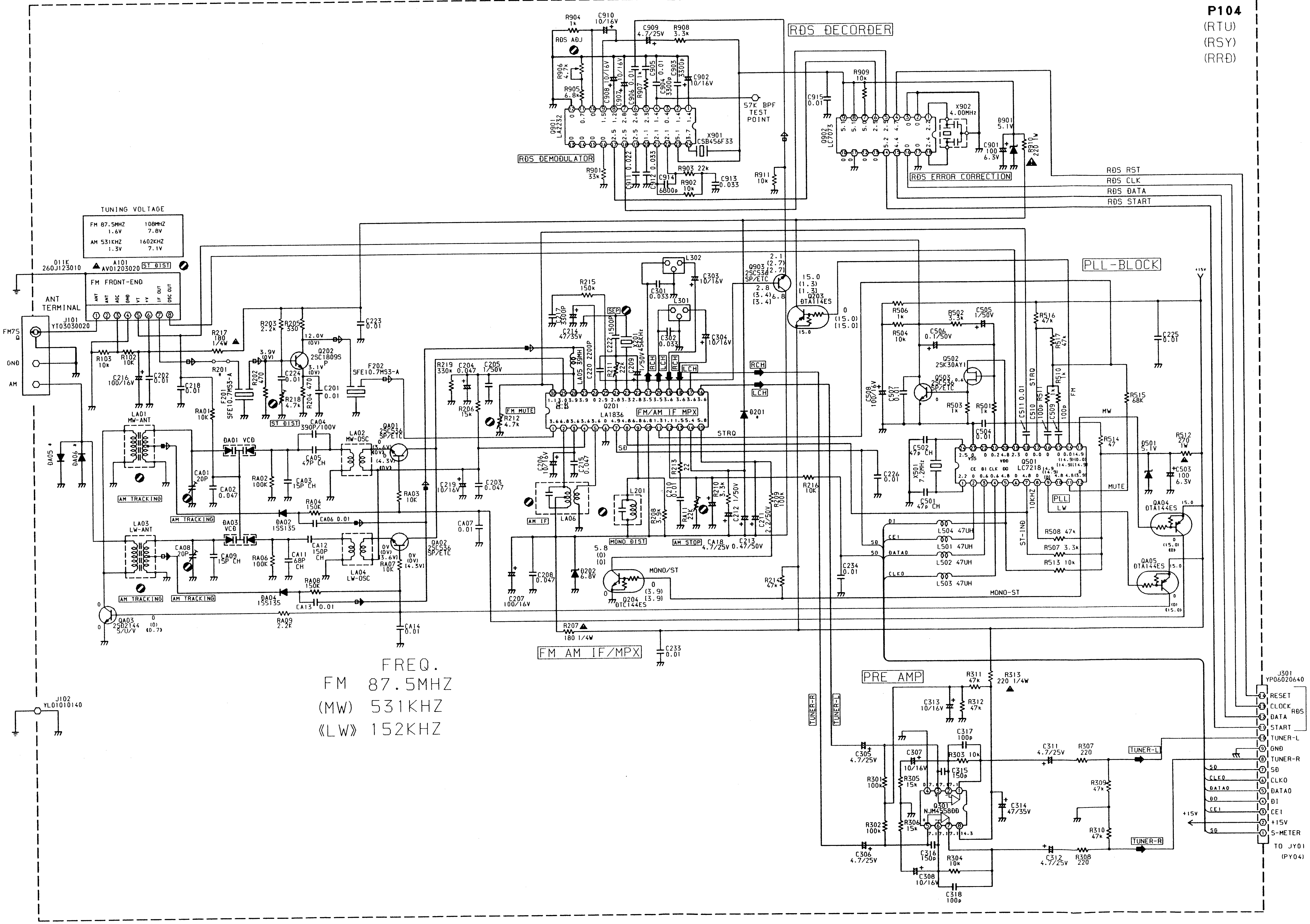
U, K, KK Version



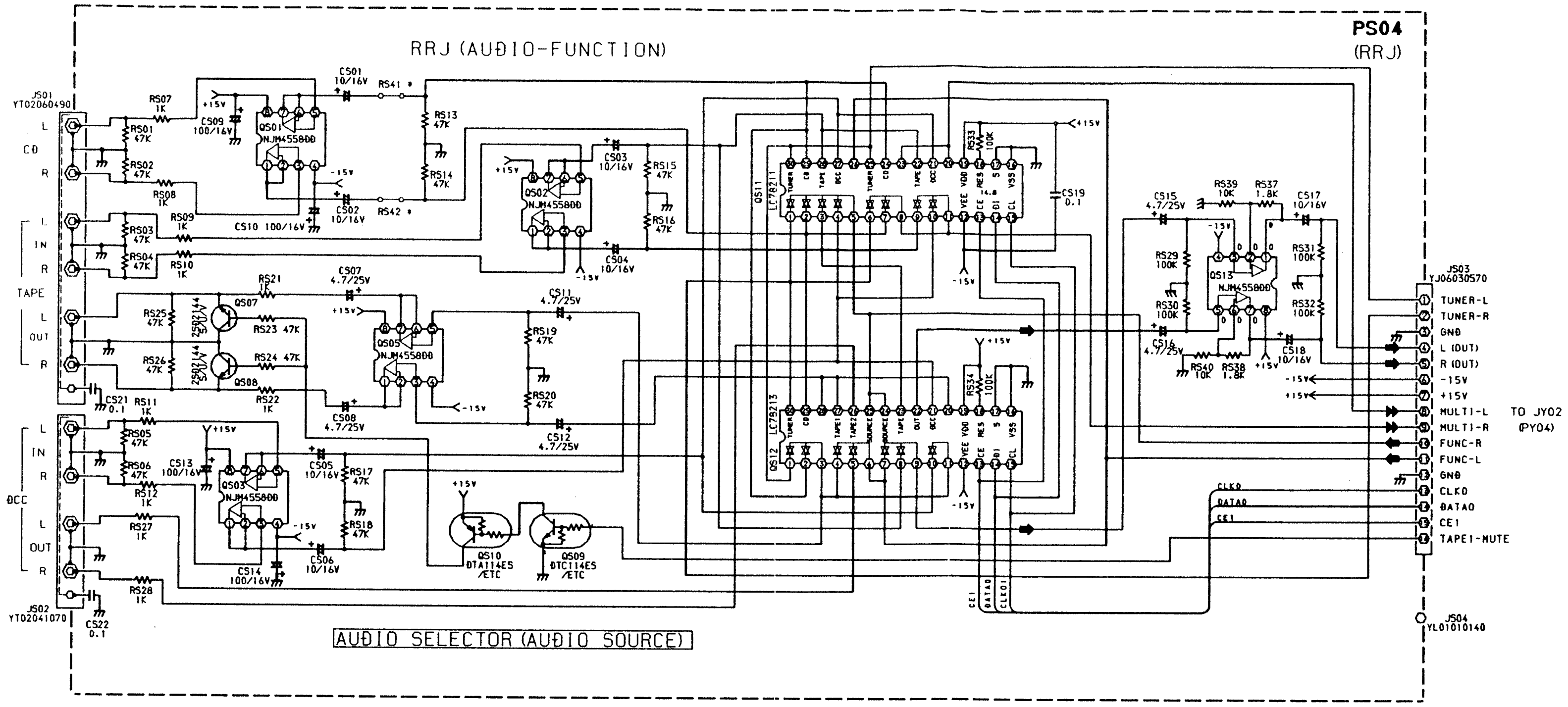
TUNING VOLTAGE
FM 87.5MHZ 1.6V
108MHZ 7.8V
AM 520/531KHZ 1.1V
1710/1602KHZ 7.7V
011K
260J123010
A101
ST DIST
FM FRONT-END
ANT TERMINAL
J101
K:YT03030020
KK.U:YT01030080
FM75 Ω
GND
AM
R103
C216 100/16V
C202 0.01
R217 220 1/4W
K,KK ONLY
R201 100
U ONLY
C218 0.01
RA01 10K
LA01 AM-ANT
ƉA05
ƉA06
AM TRACKING
CA01 20P
CA02 0.047
ƉA01 VCD
K:SFE10.7MS3-A
KK.U:SFF10.7MA8-A
R203 2.2k
R205 330
Q202 2SC1809S
C224 0.01
R218 4.7k
R204 470
C201 0.01
F201
R202 U:390 K,KK:470
ST DIST
K ONLY
CA04 390P/100V
CA05 47P CH
RA02 100K
CA03 15P CH
LA02 AM-OSC
F202 SFE10.7MS3-A
C223 0.01
ƉA02
CA06 0.01
R219 330k
C204 0.047
C205 1/50V
R206 15k
FM MUTE
R212 4.7k
C219 10/16V
C203 0.047
R215 U:33K K,KK:150K
C227 2700p KK,U ONLY
C217 KK,U:8200P K:3300P
C214 47/35V
KK,U:4700P
C220 K:2200P
C222 1500P
LA05 39MH
SEP
R211 22k
C209 1/50V
X201 456KHZ
RCH
LCH
Q201 LA1836
FM/AM IF MPX
STRQ
SD
C206 1/50V
C215 0.047
L201
AM IF
LA06
R208 33k
R213 22
C210 0.01
RA11 22k
CA18 4.7/25V
R210 3.3k
C212 1/50V
C211 2.2/50V
C213 0.47/50V
R209 100k
MONO DIST
AM STOP
C207 100/16V
C208 0.047
D202 6.8V
5.8 (0)
Q204 DTC144ES
MONO/ST
0 (3.9)
R214 47k
R207 180 1/4W
C233 0.01
FM AM IF/MPX
L302
C301
C303 10/16V
L301
KK,U:0.047 K:0.033
C302
C304 10/16V
TUNER-R
TUNER-L
D201
R216 10K
C234 0.01
Q203 DTA114ES
15.0 (1.3)
0 (15.0)
15.0
PLL-BLOCK
R506 1k
R504 10k
R502 3.3k
C505 1/50V
C506 0.1/50V
Q502 2SK30AY1
Q503 2SC536 SP/E/C
C508 100/16V
C507 0.01
R503 1k
R501 1k
C504 0.01
R516 47k
R517 47k
R510 1k
C511 0.01
C510 100p
R511 1k
C509 100p
STRQ
FM
C225 0.01
R515 68K
C502 47p CH
X501
C501 47p CH
C226 0.01
Q501 LC7218
PLL
R514 47
MUTE
D501 5.1V
R512 270 1W
C503 100 6.3V
+15V
10KHZ
ST-IND
DI
CEI
DATAO
CLKO
L504 47UH
L501 47UH
L502 47UH
L503 47UH
R508 47k
R507 3.3k
R513 10k
MONO-ST
J301 YP06020640
RESET
CLOCK
DATA
START
RDS
TUNER-L
GND
TUNER-R
SD
CLKO
DATAO
DI
CEI
+15V
S-METER
TO JY01 (PY04)
K ONLY
DE-EMPHASIS /SCAN STEP SW.
50US 9KHZ
75US 10KHZ
S301
C309 0.015
C310 0.015
U240 K ONLY
U241 K ONLY
KK ONLY U180
J102 YL01010140
KK, U ONLY
C305
C315
C317
C311 4.7/25V
R307 220
R309 47k
R310 47k
C306
C316
C318
C312 4.7/25V
R308 220
K ONLY
PRE AMP
R311 47k
R313 220 1/4W
C313 10/16V
R312 47k
C305 4.7/25V
C307 10/16V
R303 10k
R301 100k
R305 15k
Q301 NJM4558D
C314 47/35V
R302 100k
R306 15k
C306 4.7/25V
C308 10/16V
R304 10k
FREQ.
FM 87.5MHZ
AM 520KHZ (10KHZ STEP)
531KHZ (9KHZ STEP)
P104
(RTU)
(RSY)
(RRĐ)

TUNER

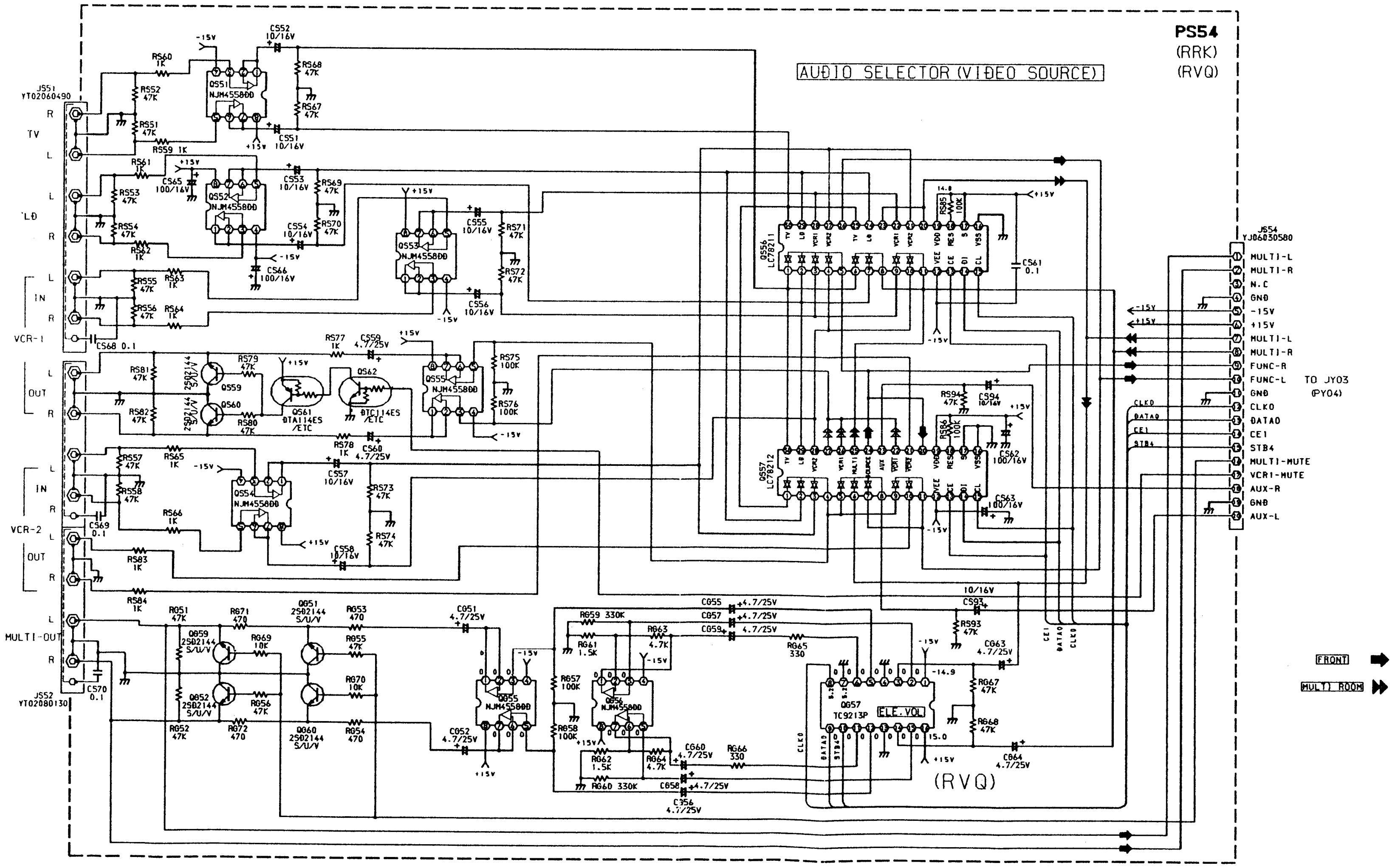
/02 Version


P104
(RTU)
(RSY)
(RRD)
RDS DECORDER
RDS DEMODULATOR
Q901 LA2232
RDS ADJ
57K BPF TEST POINT
X901 CSB456F33
Q902 LC7073
X902 4.00MHz
D901 5.1V
RDS ERROR CORRECTION
RDS RST
RDS CLK
RDS DATA
RDS START
TUNING VOLTAGE
FM 87.5MHZ 1.6V
108MHZ 7.8V
AM 531KHZ 1.3V
1602KHZ 7.1V
011K 260J123010
A101 AV01203020
ST DIST
FM FRONT-END
ANT TERMINAL
J101 YT03030020
FM75 Ω
GND
AM
Q202 2SC1809S
F201 SFE10.7MS3-A
F202 SFE10.7MS3-A
ST DIST
LA01 MW-ANT
AM TRACKING
DA01 VCD
LA02 MW-OSC
QA01 2SC536 SP/ETC
DA02 1SS135
LA03 LW-ANT
DA03 VCD
LA04 LW-OSC
QA02 2SC536 SP/ETC
DA04 1SS135
QA03 2SD2144 S/U/V
DA05
DA06
FM MUTE
Q201 LA1836
FM/AM IF MPX
AM IF
LA06
MONO DIST
AM STOP
D202 6.8V
Q204 DTC144ES
MONO/ST
R207 180 1/4W
FM AM IF/MPX
L302
L301
SEP
Q903 2SC536 SP/ETC
Q203 DTA114ES
RCH
LCH
D201
STRQ
SD
PLL-BLOCK
Q502 2SK30AY
Q503 2SC536 SP/ETC
Q501 LC7218
X501 7.2MHz
PLL
LW
ST-IND
MW
MUTE
D501 5.1V
QA04 DTA144ES
QA05 DTA144ES
L504 47UH
L501 47UH
L502 47UH
L503 47UH
MONO-ST
PRE AMP
Q301 NJM4558DD
TUNER-R
TUNER-L
J301 YP06020640
RESET
CLOCK
DATA
START
RDS
TUNER-L
GND
TUNER-R
SD
CLKO
DATAO
DI
CE1
+15V
S-METER
TO JY01 (PY04)
J102 YL01010140
FREQ.
FM 87.5MHZ
(MW) 531KHZ
《LW》 152KHZ

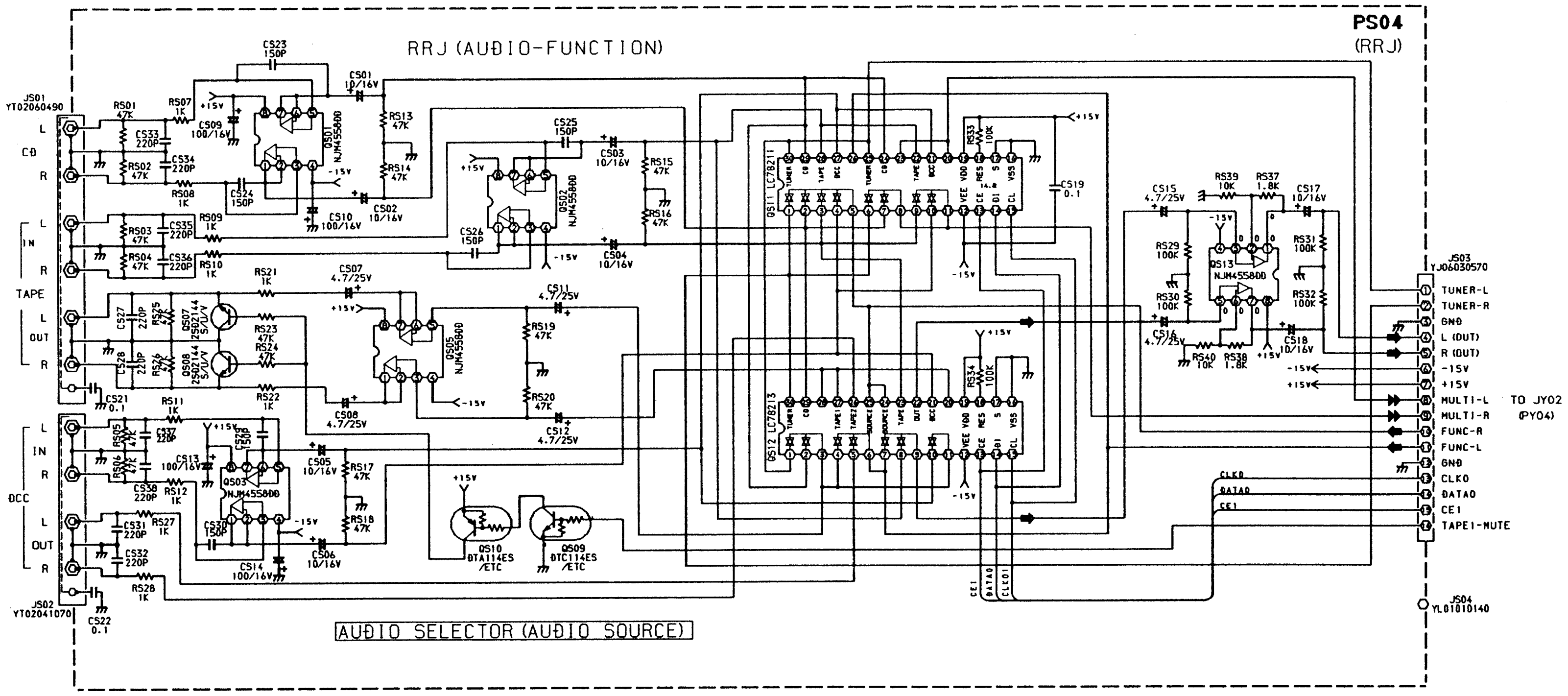
U, K, KK Version


PS04
(RRJ)
RRJ (AUDIO-FUNCTION)
AUDIO SELECTOR (AUDIO SOURCE)
J501
YT02060490
CD
L
R
TAPE
IN
OUT
DCC
J502
YT02041070
Q510
DTA114ES
/ETC
Q509
DTC114ES
/ETC
Q511
LC7821
Q512
LC78213
Q513
NJM4558DD
J503
YJ06030570
TUNER-L
TUNER-R
GND
L (OUT)
R (OUT)
-15V
+15V
MULTI-L
MULTI-R
FUNC-R
FUNC-L
GND
CLKO
DATAO
CE1
TAPE1-MUTE
TO JY02
(PY04)
J504
YL01010140

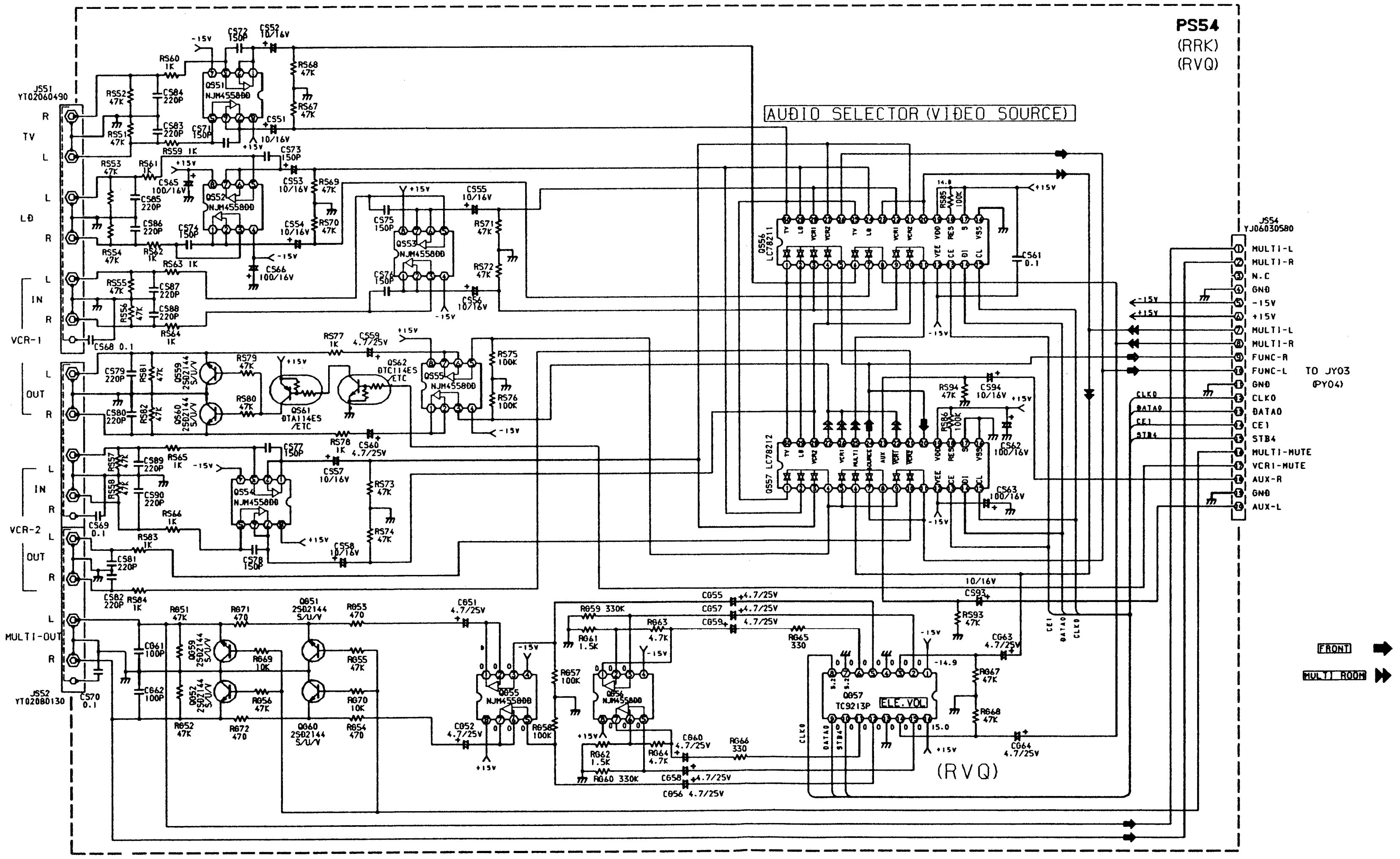
U, K, KK Version


PS54
(RRK)
(RVQ)
AUDIO SELECTOR (VIDEO SOURCE)
J551
YT02060490
TV
LD
VCR-1
VCR-2
IN
OUT
MULTI-OUT
J552
YT02080130
Q561
DTA114ES
/ETC
Q562
DTC114ES
/ETC
Q556
LC7821
Q557
LC78212
Q057
TC9213P
ELE.VOL
(RVQ)
J554
YJ06030580
MULTI-L
MULTI-R
N.C
GND
-15V
+15V
MULTI-L
MULTI-R
FUNC-R
FUNC-L
GND
CLKO
DATAO
CE1
STB4
MULTI-MUTE
VCR1-MUTE
AUX-R
GND
AUX-L
TO JY03
(PY04)
FRONT
MULTI ROOM

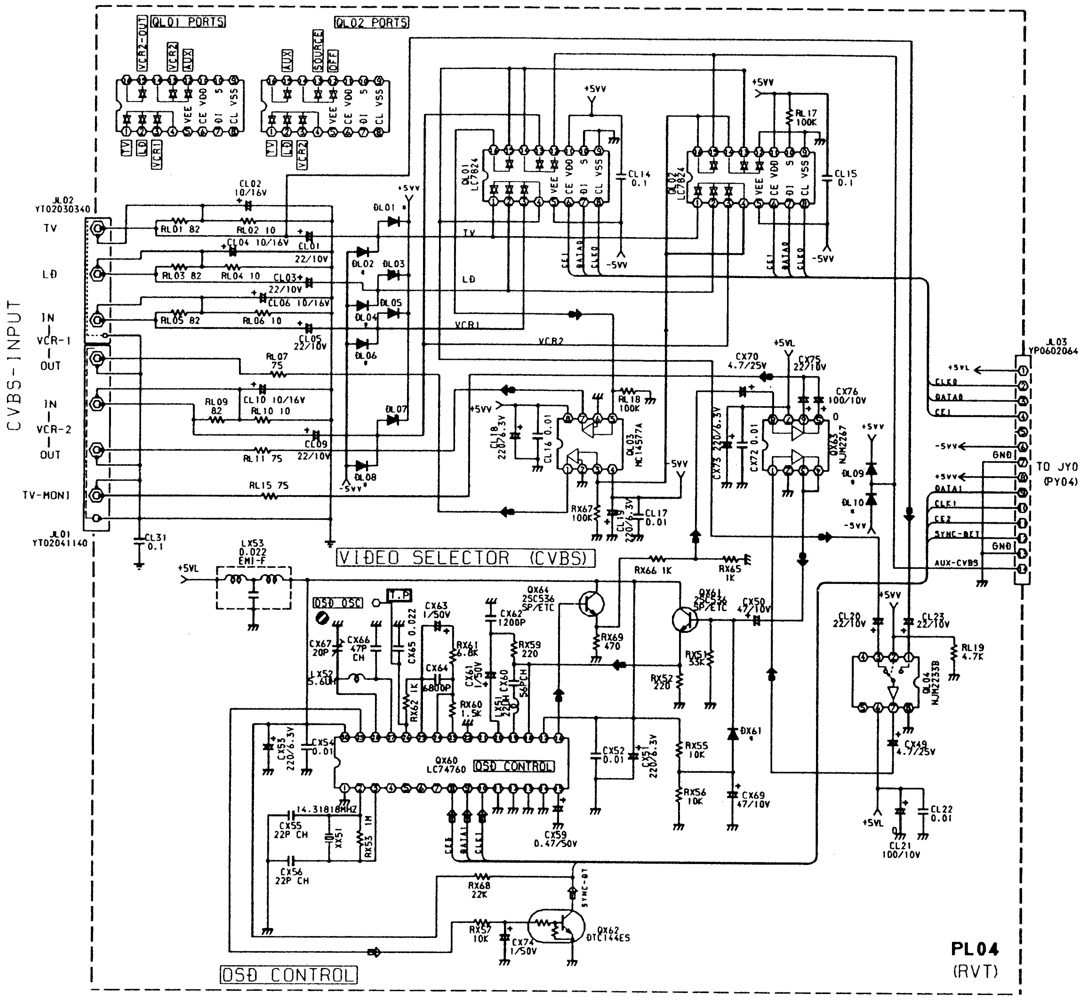
/02 Version

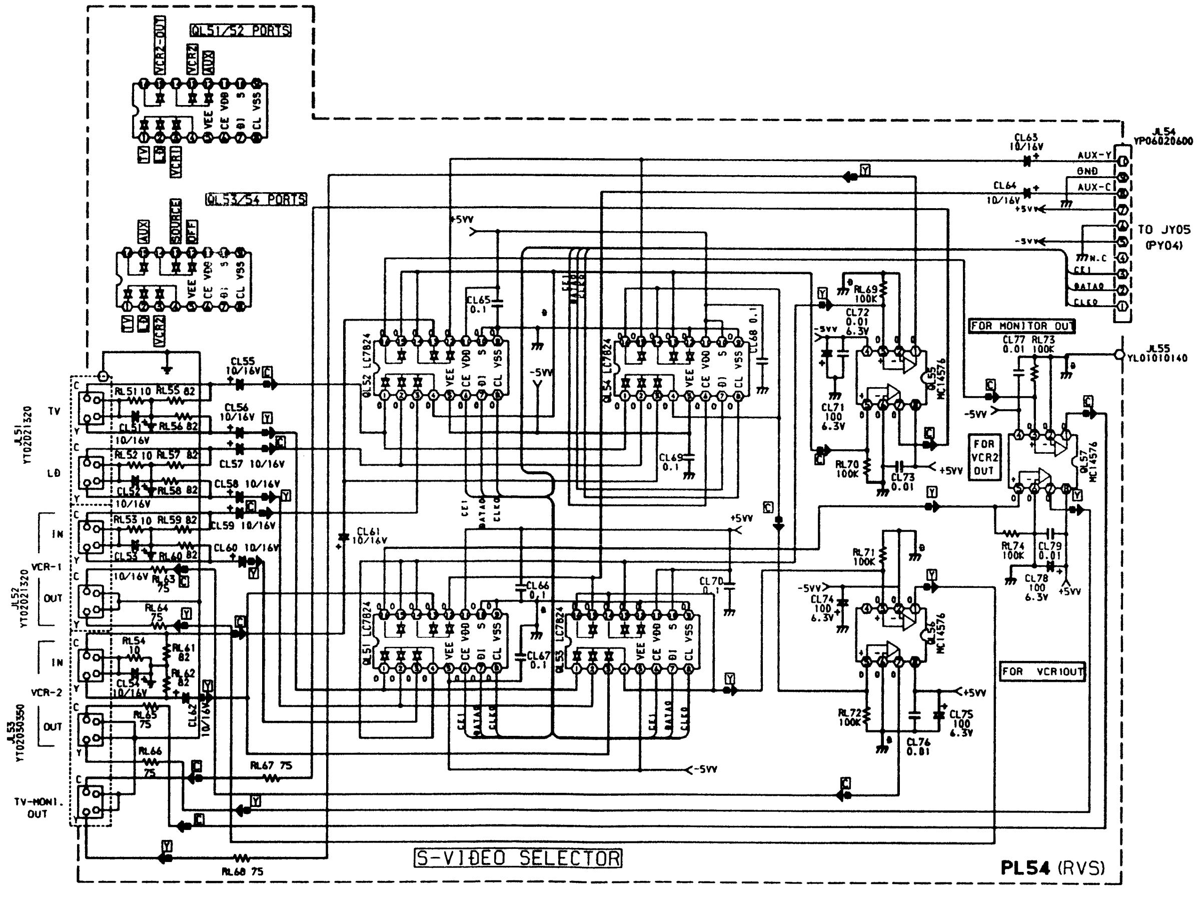

PS04
(RRJ)
RRJ (AUDIO-FUNCTION)
AUDIO SELECTOR (AUDIO SOURCE)
J501
YT02060490
CD
L
R
TAPE
IN
OUT
DCC
J502
YT02041070
Q501 NJM4558DD
Q502 NJM4558DD
Q505 NJM4558DD
Q503 NJM4558DD
Q513 NJM4558DD
Q511 LC78211
Q512 LC78213
Q507 2SD2144 S/U/V
Q508 2SD2144 S/U/V
Q510 DTA114ES /ETC
Q509 DTC114ES /ETC
J503
YJ06030570
TUNER-L
TUNER-R
GND
L (OUT)
R (OUT)
-15V
+15V
MULTI-L
MULTI-R
FUNC-R
FUNC-L
GND
CLKO
DATAO
CE1
TAPE1-MUTE
TO JY02
(PY04)
J504
YL01010140

/02 Version

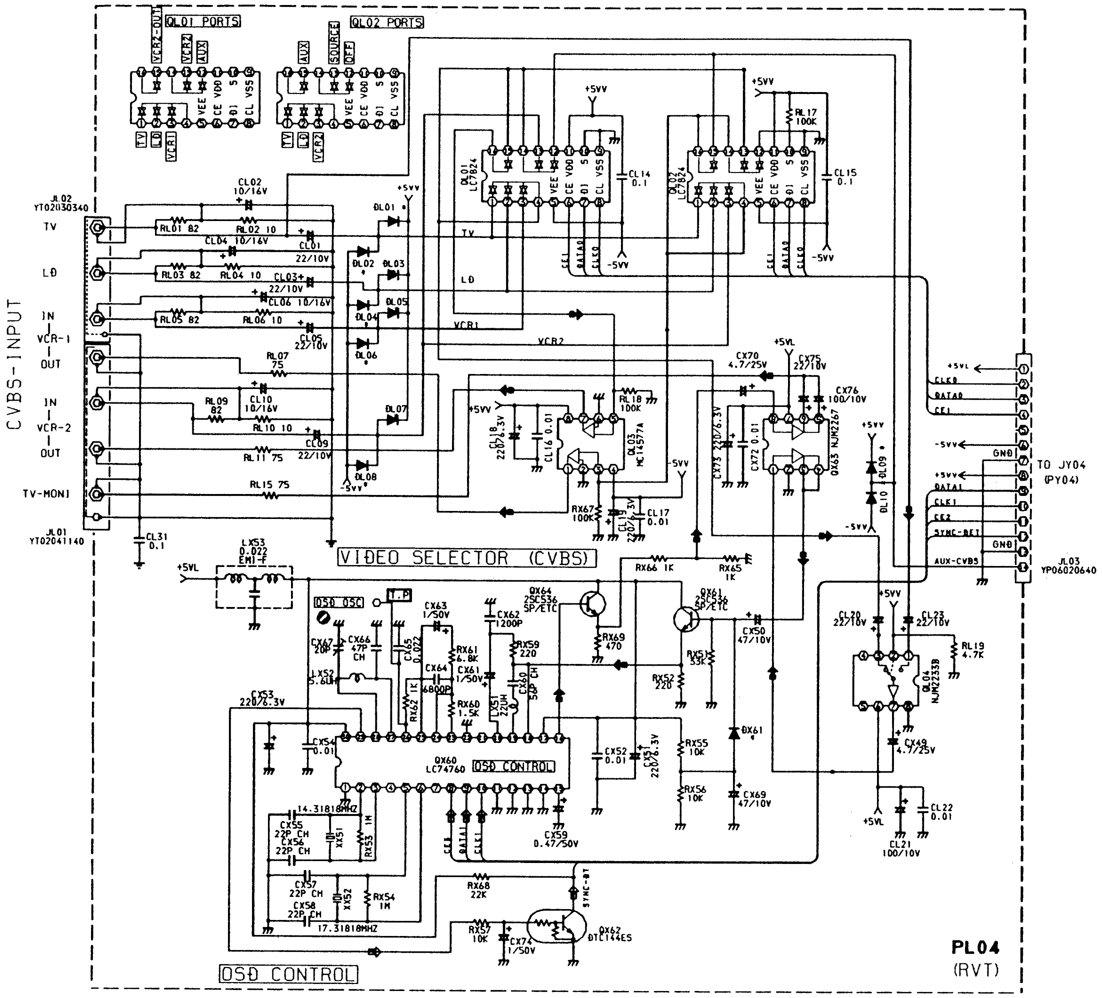

PS54
(RRK)
(RVQ)
AUDIO SELECTOR (VIDEO SOURCE)
J551
YT02060490
TV
LD
VCR-1
VCR-2
IN
OUT
MULTI-OUT
J552
YT02080130
Q551 NJM4558DD
Q552 NJM4558DD
Q553 NJM4558DD
Q554 NJM4558DD
Q555 NJM4558DD
Q556 LC78211
Q557 LC78212
Q559 2SD2144 S/U/V
Q560 2SD2144 S/U/V
Q561 DTA114ES /ETC
Q562 DTC114ES /ETC
Q051 2SD2144 S/U/V
Q052 2SD2144 S/U/V
Q059 2SD2144 S/U/V
Q060 2SD2144 S/U/V
Q055 NJM4558DD
Q056 NJM4558DD
Q057 TC9213P
ELE.VOL
(RVQ)
J554
YJ06030580
MULTI-L
MULTI-R
N.C
GND
-15V
+15V
MULTI-L
MULTI-R
FUNC-R
FUNC-L
GND
CLKO
DATAO
CE1
STB4
MULTI-MUTE
VCR1-MUTE
AUX-R
GND
AUX-L
TO JY03
(PY04)
FRONT
MULTI ROOM

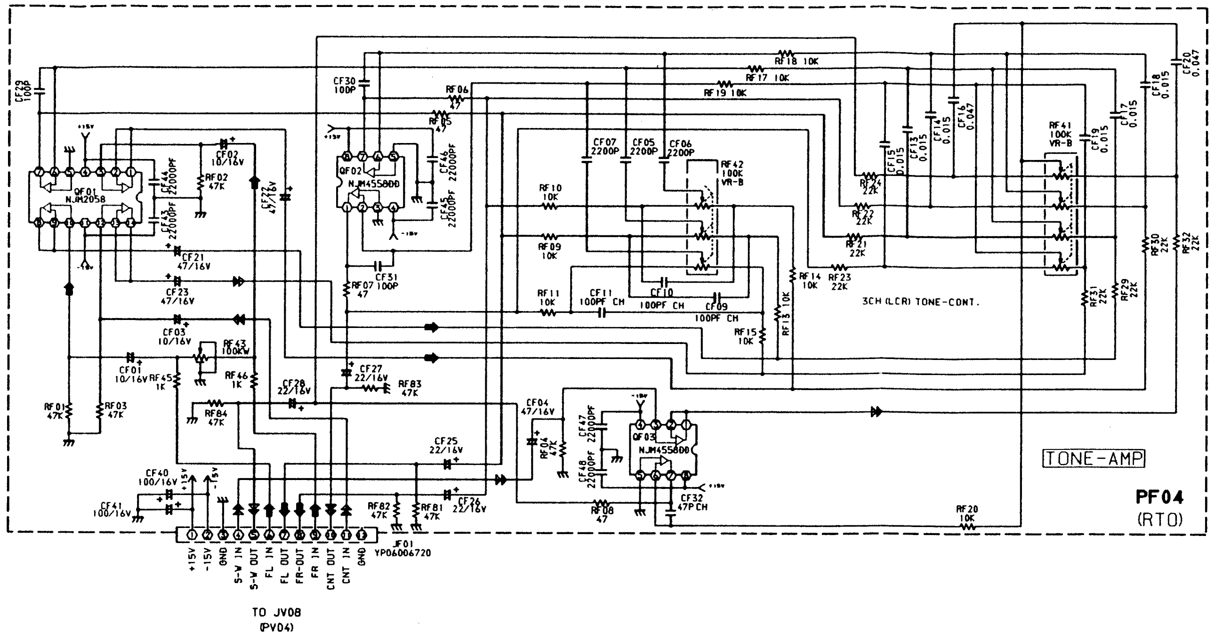
U, KK Version


QL01 PORTS
QL02 PORTS
CVBS-INPUT
TV
LD
IN
VCR-1
OUT
IN
VCR-2
OUT
TV-MONI
JL02 YT02030340
JL01 YT02041140
JL03 YP06020640
TO JY04 (PY04)
QL01 LC7824
QL02 LC7824
QL03 MC14577A
QL04 NJM2233B
QL63 NJM2267
QX60 LC74760
QX61 2SC536 SP/E/C
QX64 2SC536 SP/E/C
QX62 DTC144ES
VIDEO SELECTOR (CVBS)
OSD OSC
OSD CONTROL
14.31818MHZ
PL04
(RVT)

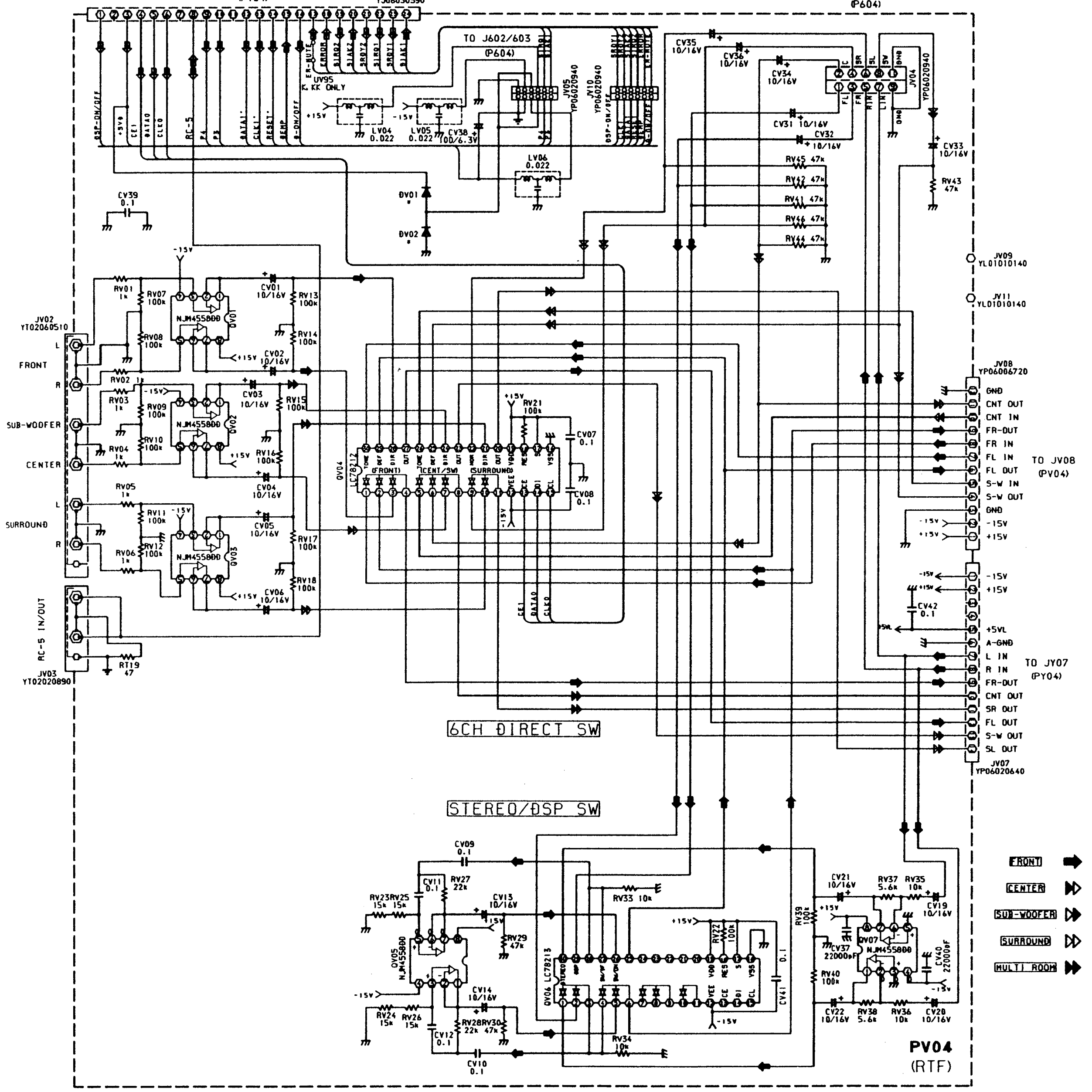

QL51/52 PORTS
QL53/54 PORTS
TV
LD
IN
VCR-1
OUT
IN
VCR-2
OUT
TV-MONI. OUT
JL51 YT02021320
JL52 YT02021320
JL53 YT02050350
JL54 YP06020600
JL55 YL01010140
TO JY05 (PY04)
AUX-Y
GND
AUX-C
FOR MONITOR OUT
FOR VCR2 OUT
FOR VCR1OUT
QL51 LC7824
QL52 LC7824
QL53 LC7824
QL54 LC7824
QL55 MC14576
QL56 MC14576
QL57 MC14576
S-VIDEO SELECTOR
PL54 (RVS)

/02, K Version

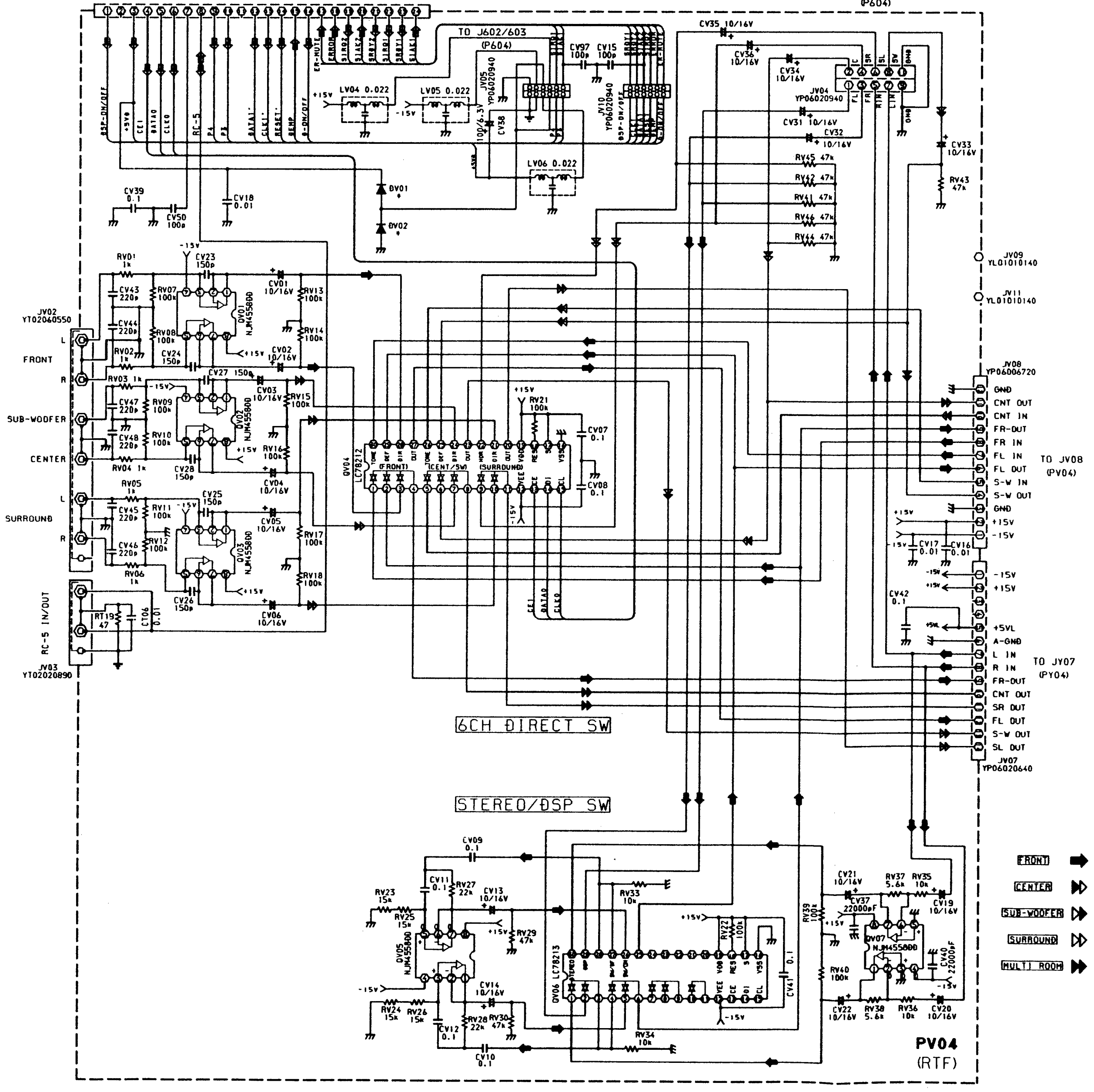

QL01 PORTS
QL02 PORTS
CVBS-INPUT
TV
LD
IN
VCR-1
OUT
IN
VCR-2
OUT
TV-MONI
JL02 YT02030340
JL01 YT02041140
JL03 YP06020640
TO JY04 (PY04)
QL01 LC7824
QL02 LC7824
QL03 MC14577A
QL04 NJM2233B
QL63 NJM2267
QX60 LC74760
QX61 2SC536 SP/E/C
QX64 2SC536 SP/E/C
QX62 DTC144ES
VIDEO SELECTOR (CVBS)
OSD OSC
OSD CONTROL
14.31818MHZ
17.31818MHZ
PL04
(RVT)

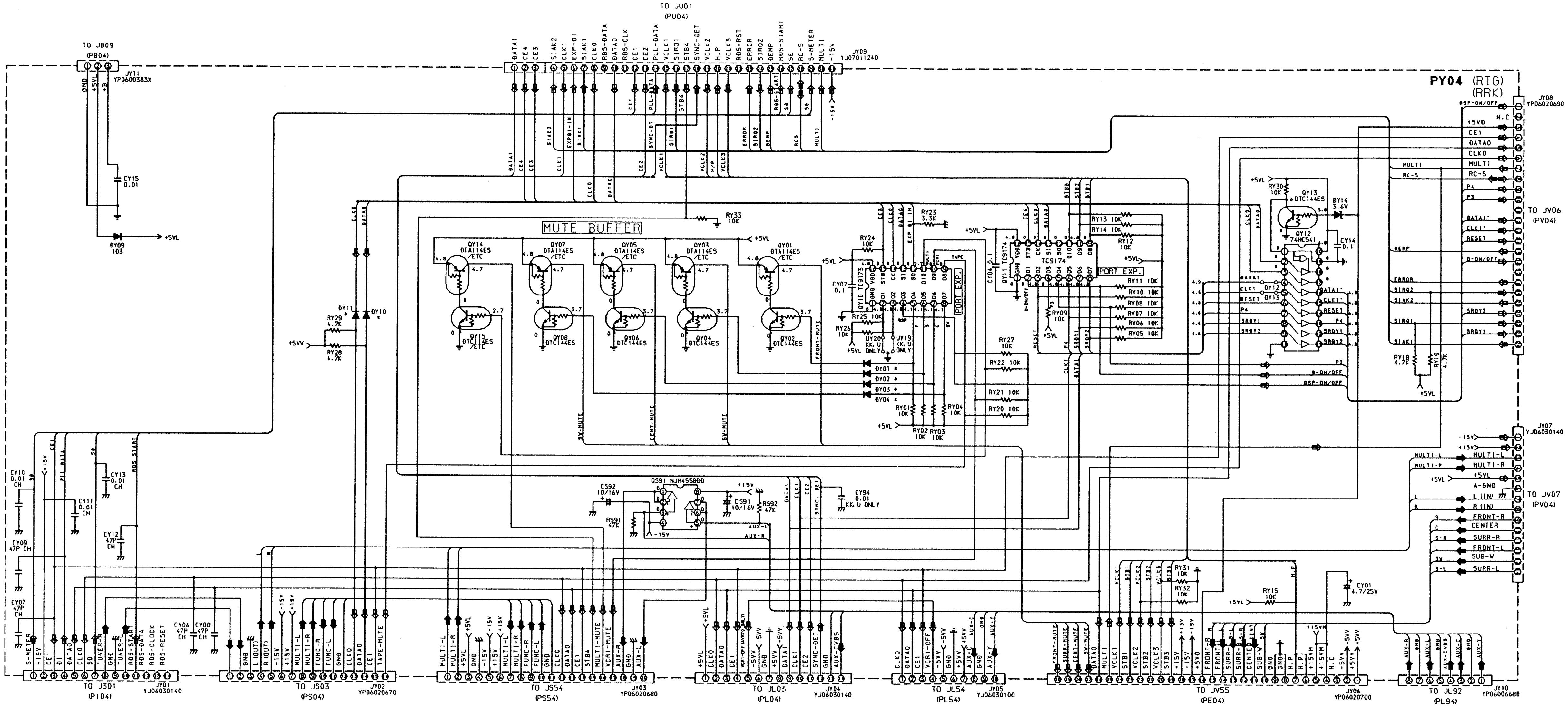

TONE-AMP
PF04
(RTO)
3CH (LCR) TONE-CONT.
QF01 NJM2058
QF02 NJM455800
QF03 NJM455800
RF41 100K VR-B
RF42 100K VR-B
JF01 YP06006720
+15V
-15V
GND
S-W IN
S-W OUT
FL IN
FL OUT
FR IN
FR OUT
CNT IN
CNT OUT
GND
TO JV08
(PV04)

U, K, KK Version

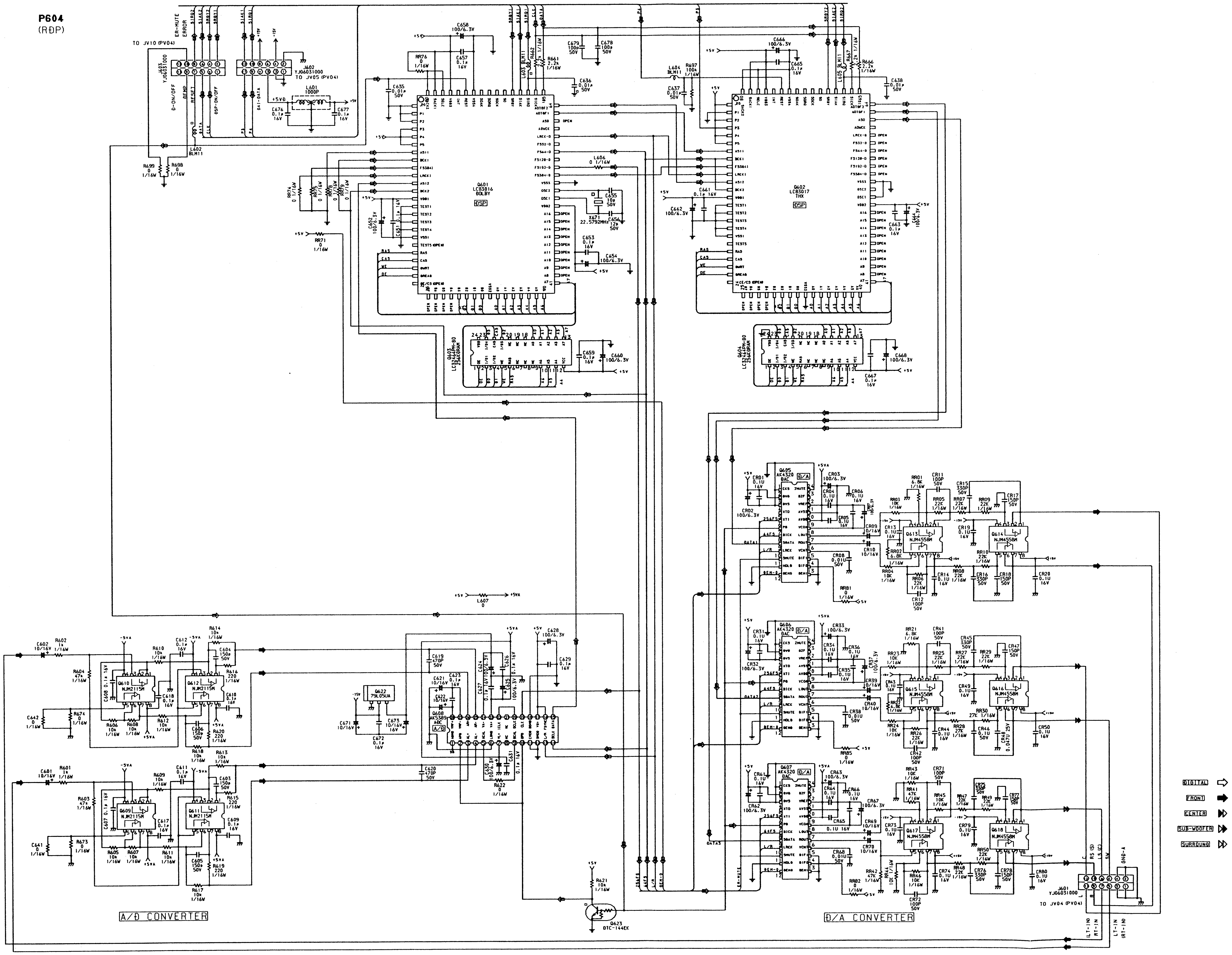

TO JY08
(PY04)
JY06
YJ06030590
TO J601
(P604)
TO J602/603
(P604)
UV95
C, EE ONLY
FRONT
SUB-WOOFER
CENTER
SURROUND
RC-5 IN/OUT
JY02
YT02060510
JY03
YT02020890
JY09
YL01010140
JY11
YL01010140
JY08
YP06006720
GND
CNT OUT
CNT IN
FR-OUT
FR IN
FL IN
FL OUT
S-W IN
S-W OUT
GND
-15V
+15V
TO JV08
(PV04)
-15V
+15V
+5VL
A-GND
L IN
R IN
FR-OUT
CNT OUT
SR OUT
FL OUT
S-W OUT
SL OUT
TO JY07
(PY04)
JY07
YP06020640
QV01 NJM455800
QV02 NJM455800
QV03 NJM455800
QV04 LC7821
QV05 NJM455800
QV06 LC78213
QV07 NJM455800
6CH DIRECT SW
STEREO/DSP SW
FRONT
CENTER
SUB-WOOFER
SURROUND
MULTI ROOM
PV04
(RTF)

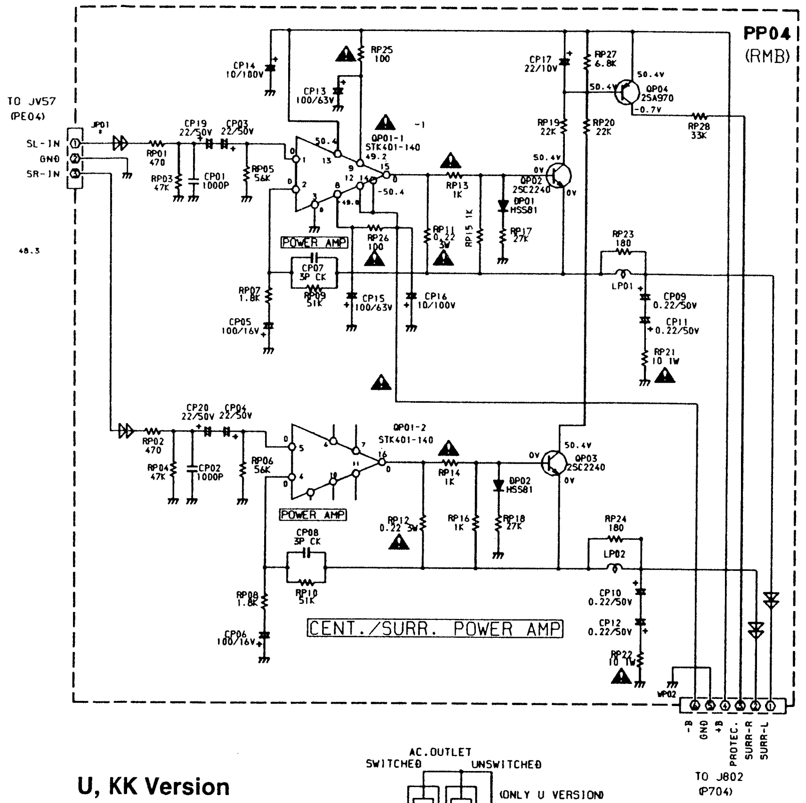
/02 Version


TO JY08
(PY04)
JY06
YJ06030590
TO J601
(P604)
TO J602/603
(P604)
FRONT
SUB-WOOFER
CENTER
SURROUND
RC-5 IN/OUT
JY02
YT02060550
JY03
YT02020890
JY09
YL01010140
JY11
YL01010140
JY08
YP06006720
GND
CNT OUT
CNT IN
FR-OUT
FR IN
FL IN
FL OUT
S-W IN
S-W OUT
GND
+15V
-15V
TO JV08
(PV04)
-15V
+15V
+5VL
A-GND
L IN
R IN
FR-OUT
CNT OUT
SR OUT
FL OUT
S-W OUT
SL OUT
TO JY07
(PY04)
JY07
YP06020640
QV01 NJM455800
QV02 NJM455800
QV03 NJM455800
QV04 LC78212
QV05 NJM455800
QV06 LC78213
QV07 NJM455800
6CH DIRECT SW
STEREO/DSP SW
FRONT
CENTER
SUB-WOOFER
SURROUND
MULTI ROOM
PV04
(RTF)

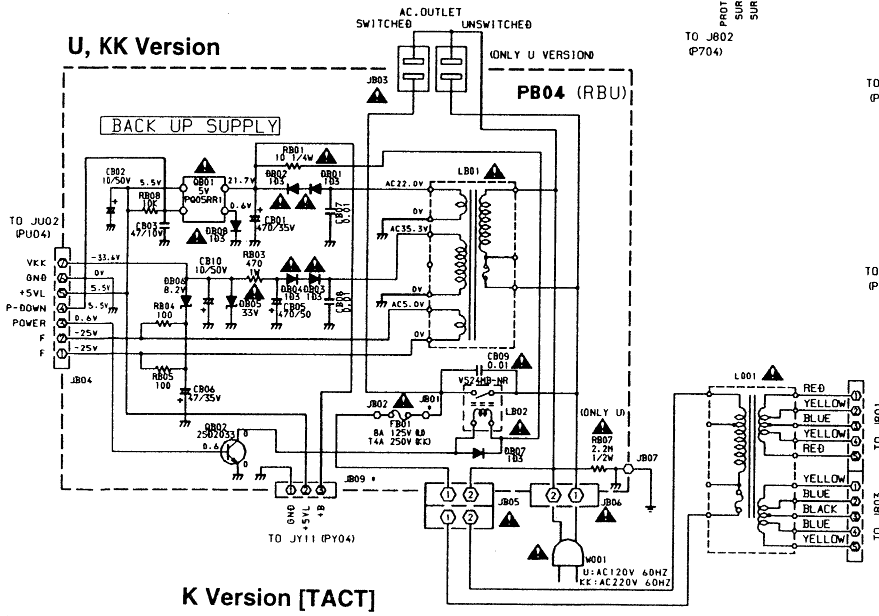

PY04 (RTG)
(RRK)
MUTE BUFFER
PORT EXP.
TO JU01
(PU04)
TO JB09
(PB04)
JY09
JY11
JY08
TO JV06
(PV04)
JY07
TO JV07
(PV04)
TO J301
(P104)
JY01
TO JS03
(PS04)
JY02
TO JS54
(PS54)
JY03
TO JL03
(PL04)
JY04
TO JL54
(PL54)
JY05
TO JV55
(PE04)
JY06
TO JL92
(PL94)
JY10
QS91 NJM4558DD
TC9174
TC9173
74HC541

P604
(RĐP)

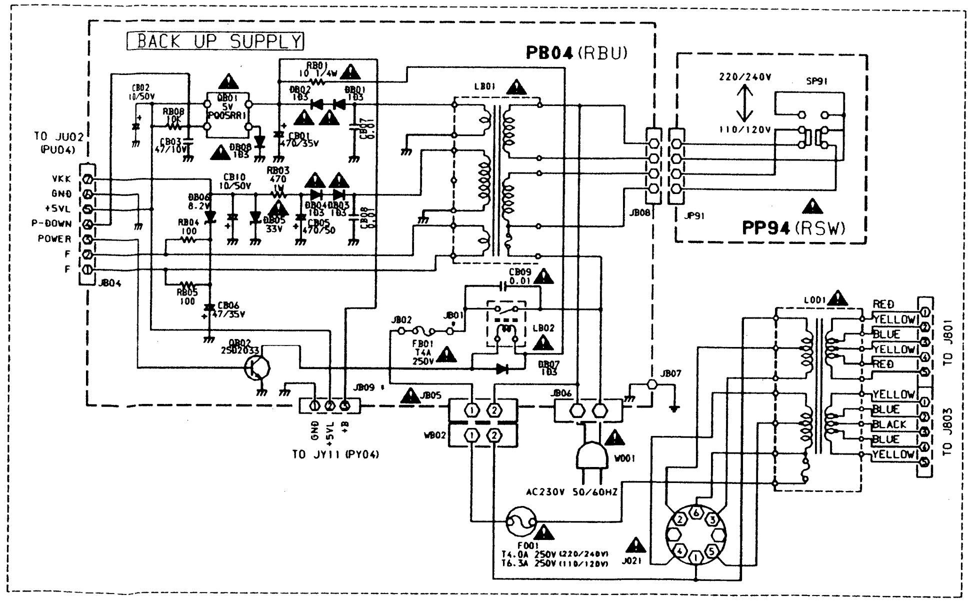

TO JV10 (PV04)
J603 YJ06031000
J602 YJ06031000 TO JV05 (PV04)
Q601 LC83016 DOLBY DSP
Q602 LC83017 THX DSP
Q603 LC324260M-80 256K DRAM
Q604 LC324260M-80 256K DRAM
X671 22.5792MHz
Q605 AK4320 DAC D/A
Q606 AK4320 DAC D/A
Q607 AK4320 DAC D/A
Q608 AK5389 ADC A/D
Q609 NJM2115M
Q610 NJM2115M
Q611 NJM2115M
Q612 NJM2115M
Q613 NJM4558M
Q614 NJM4558M
Q615 NJM4558M
Q616 NJM4558M
Q617 NJM4558M
Q618 NJM4558M
Q622 79L05UA
Q623 DTC-144EK
J601 YJ06031000 TO JV04 (PV04)
A/Đ CONVERTER
Đ/A CONVERTER
DIGITAL
FRONT
CENTER
SUB-WOOFER
SURROUND


PP04
(RMB)
TO JV57 (PE04)
SL-IN
GND
SR-IN
POWER AMP
QP01-1 STK401-140
QP01-2 STK401-140
QP03 2SC2240
QP04 2SA970
CENT./SURR. POWER AMP
-B
GND
+B
PROTEC.
SURR-R
SURR-L
TO J802 (P704)

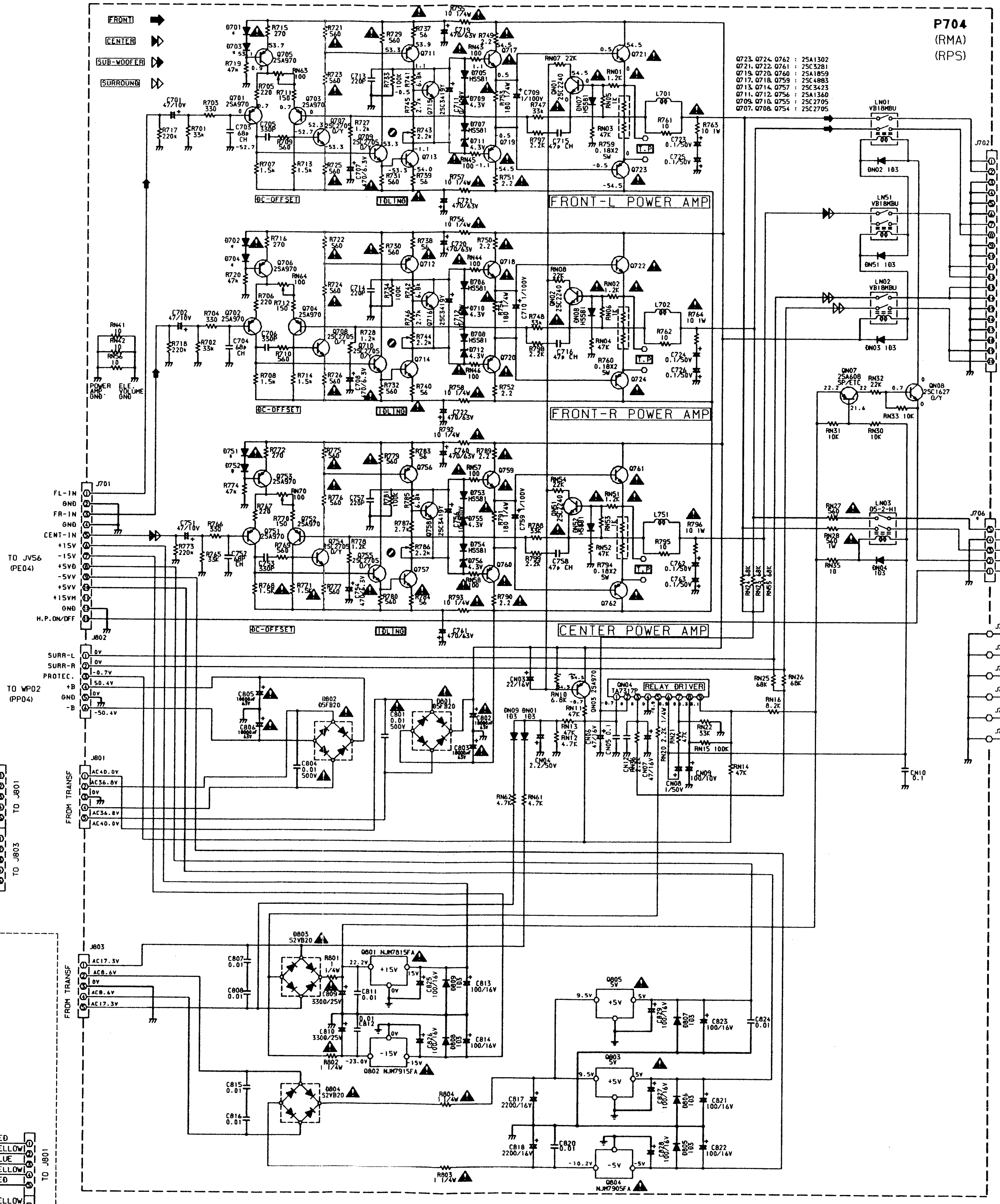
U, KK Version


AC.OUTLET
SWITCHED
UNSWITCHED
(ONLY U VERSION)
PB04 (RBU)
BACK UP SUPPLY
TO JU02 (PU04)
VKK
GND
+5VL
P-DOWN
POWER
F
F
RED
YELLOW
BLUE
YELLOW
RED
YELLOW
BLUE
BLACK
BLUE
YELLOW
TO J801
TO J803
TO JY11 (PY04)
W001
U:AC120V 60HZ
KE:AC220V 60HZ

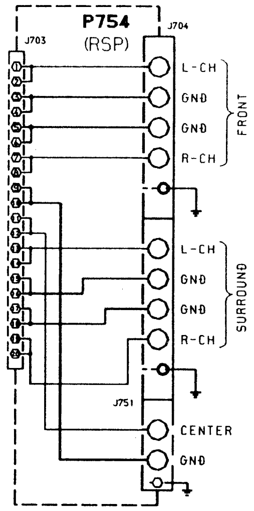
K Version [TACT]

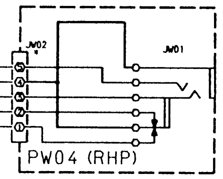

BACK UP SUPPLY
PB04 (RBU)
220/240V
110/120V
SP91
PP94 (RSW)
TO JU02 (PU04)
VKK
GND
+5VL
P-DOWN
POWER
F
F
RED
YELLOW
BLUE
YELLOW
RED
YELLOW
BLUE
BLACK
BLUE
YELLOW
TO J801
TO J803
TO JY11 (PY04)
AC230V 50/60HZ
W001
F001
J021

U, K, KK Version


FRONT
CENTER
SUB-WOOFER
SURROUND
P704
(RMA)
(RPS)
FRONT-L POWER AMP
FRONT-R POWER AMP
CENTER POWER AMP
DC-OFFSET
IDLING
RELAY DRIVER
FL-IN
GND
FR-IN
GND
CENT-IN
+15V
-15V
+5VD
-5VV
+5VV
+15VM
GND
H.P.ON/OFF
TO JV56 (PE04)
SURR-L
SURR-R
PROTEC.
+B
GND
-B
TO WP02 (PP04)
FROM TRANSF
L-CH
GND
GND
R-CH
GND
CENTER
SL-CH
GND
GND
SR-CH

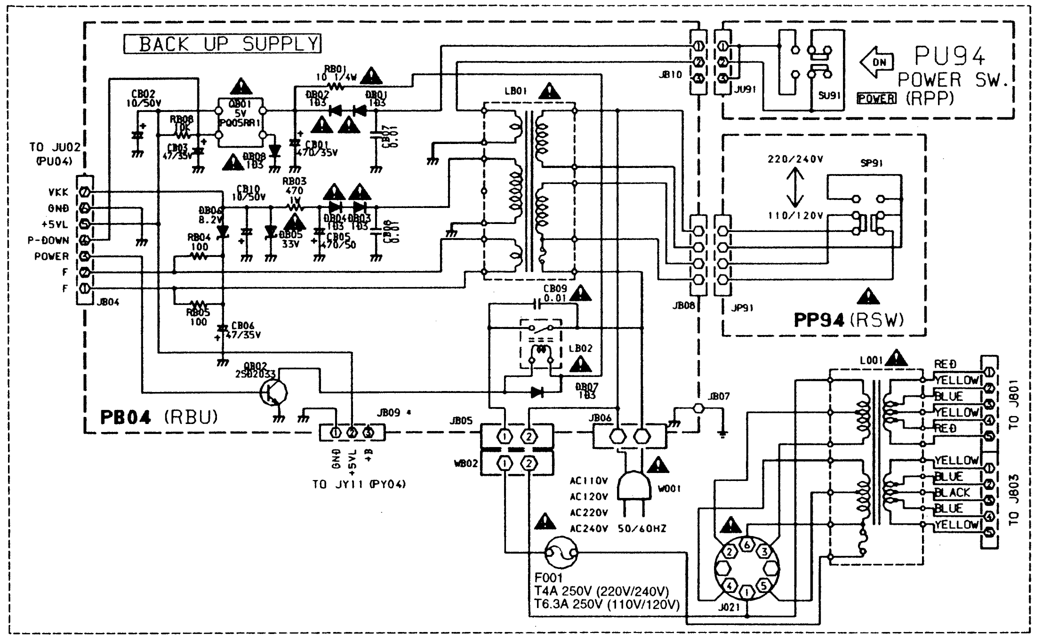
U, K, KK Version


P754
(RSP)
J703
J704
L-CH
GND
GND
R-CH
FRONT
L-CH
GND
GND
R-CH
SURROUND
CENTER
GND
J751

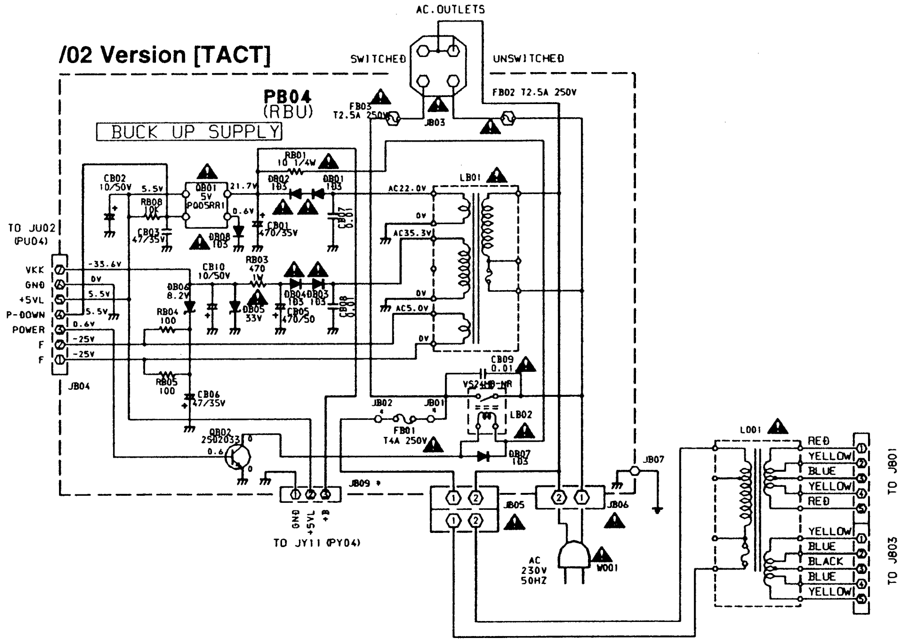

PW04 (RHP)
JW01
JW02

U, K, KK Version

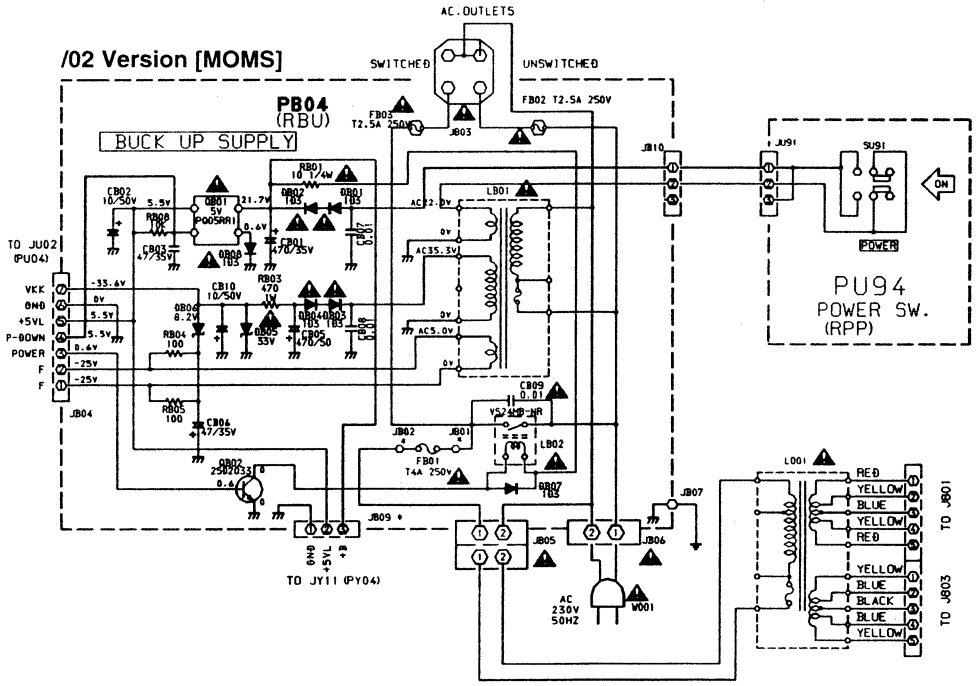
K Version [MOMS]


BACK UP SUPPLY
PB04 (RBU)
PU94 POWER SW. (RPP)
PP94 (RSW)
TO JU02 (PU04)
VKK
GND
+5VL
P-DOWN
POWER
F
F
220/240V
110/120V
TO JY11 (PY04)
AC110V
AC120V
AC220V
AC240V 50/60HZ
F001
T4A 250V (220V/240V)
T6.3A 250V (110V/120V)
RED
YELLOW
BLUE
BLACK
TO J801
TO J803

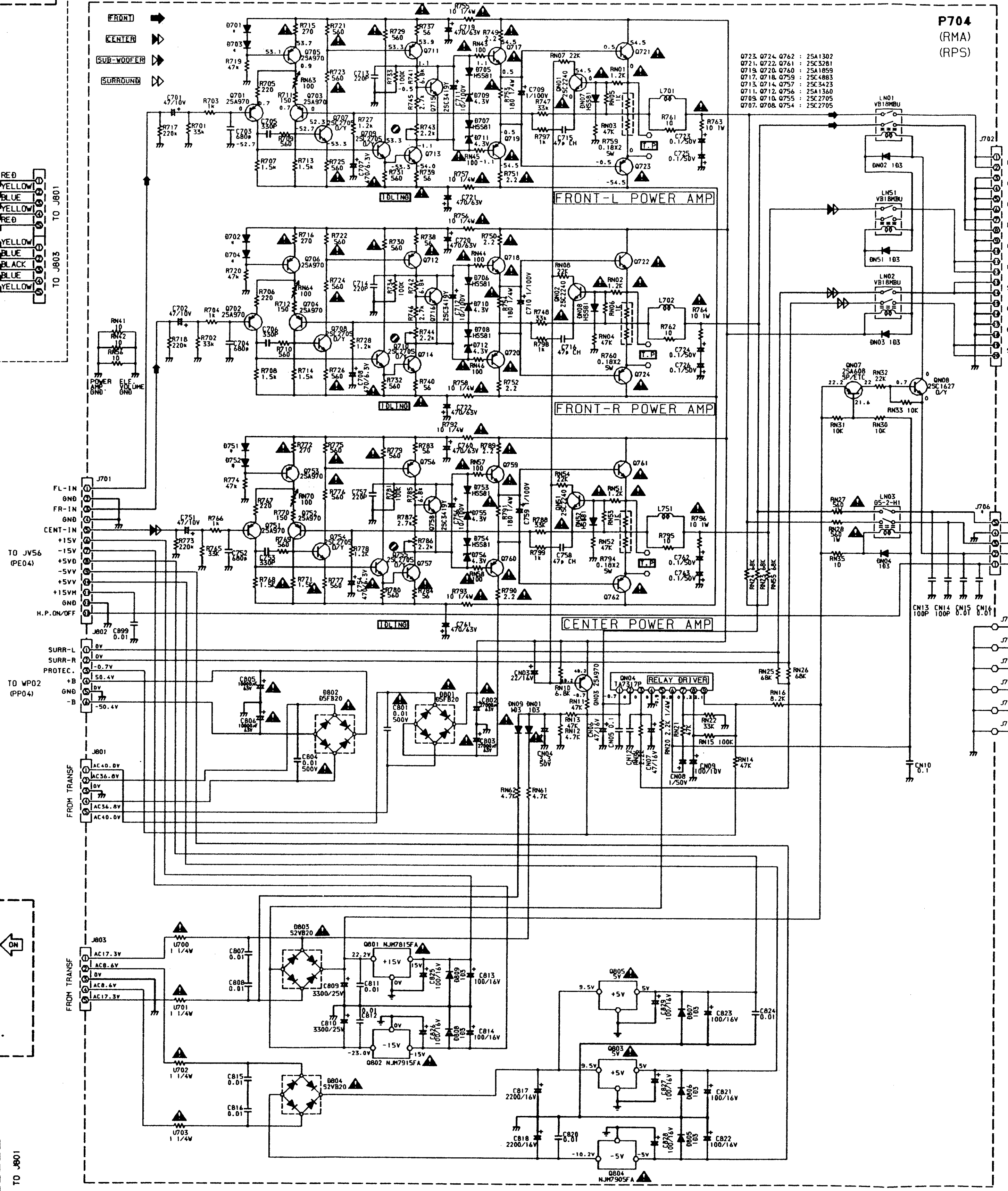
/02 Version [TACT]


AC.OUTLETS
SWITCHED
UNSWITCHED
PB04 (RBU)
BUCK UP SUPPLY
FB02 T2.5A 250V
FB03 T2.5A 250V
TO JU02 (PU04)
VKK
GND
+5VL
P-DOWN
POWER
F
F
TO JY11 (PY04)
AC 230V 50HZ
W001
RED
YELLOW
BLUE
BLACK
TO J801
TO J803

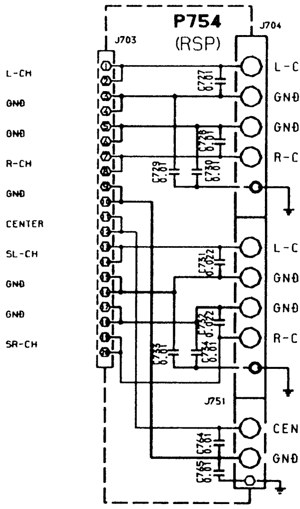
/02 Version [MOMS]

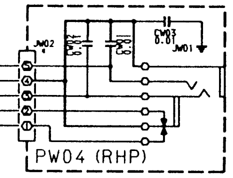

AC.OUTLETS
SWITCHED
UNSWITCHED
PB04 (RBU)
BUCK UP SUPPLY
FB02 T2.5A 250V
FB03 T2.5A 250V
PU94 POWER SW. (RPP)
POWER
TO JU02 (PU04)
VKK
GND
+5VL
P-DOWN
POWER
F
F
TO JY11 (PY04)
AC 230V 50HZ
W001
RED
YELLOW
BLUE
BLACK
TO J801
TO J803

/02 Version


FRONT
CENTER
SUB-WOOFER
SURROUND
P704 (RMA) (RPS)
FRONT-L POWER AMP
FRONT-R POWER AMP
CENTER POWER AMP
RELAY DRIVER
FL-IN
GND
FR-IN
GND
CENT-IN
+15V
-15V
+5VD
-5VV
+5VV
+15VH
GND
H.P.ON/OFF
TO JV56 (PE04)
SURR-L
SURR-R
PROTEC.
+B
GND
-B
TO WP02 (PP04)
FROM TRANSF
FROM TRANSF
L-CH
GND
GND
R-CH
GND
CENTER
SL-CH
GND
GND
SR-CH
POWER AMP GND
ELE VOLUME GND

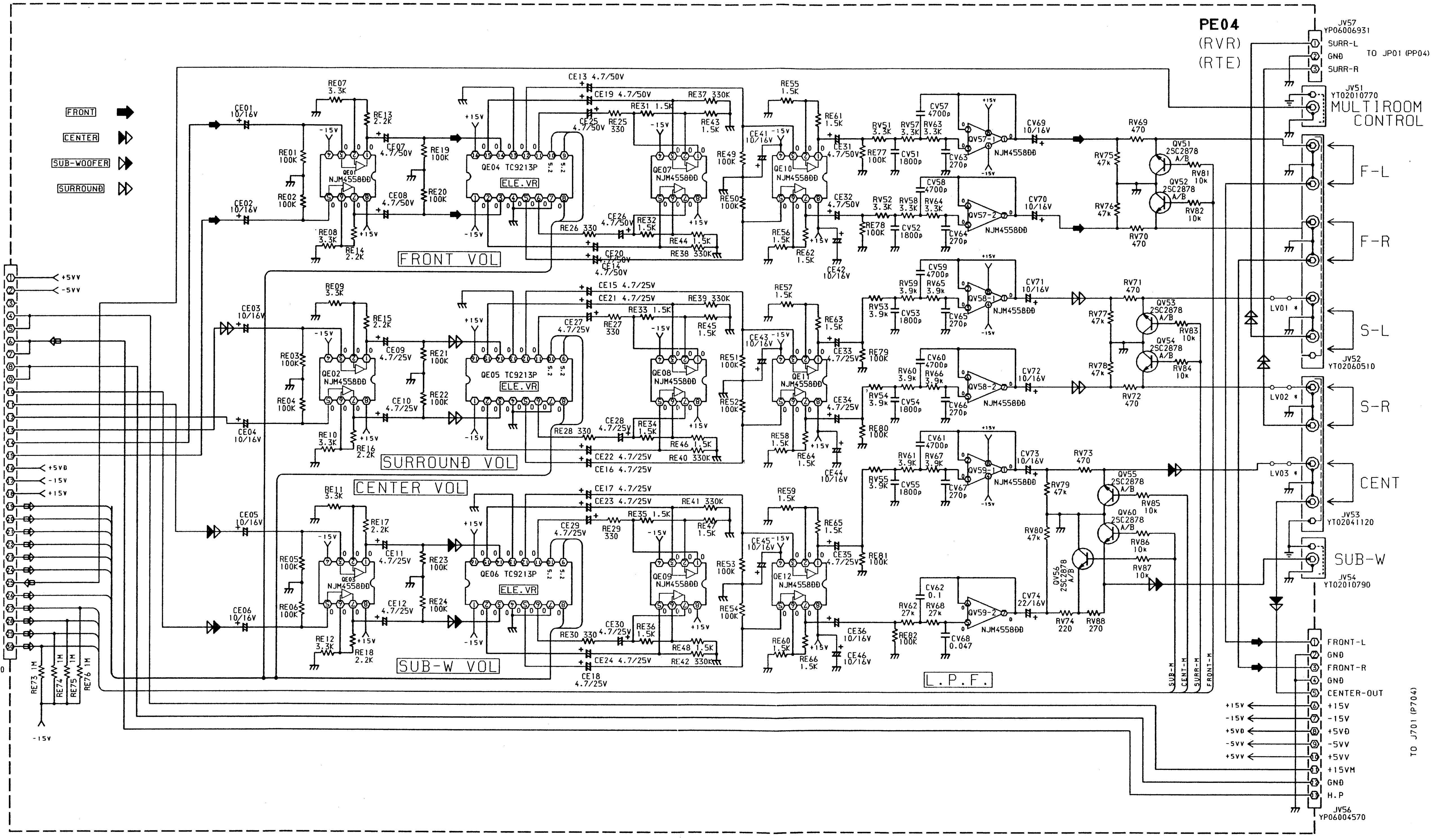
/02 Version


P754 (RSP)
L-CH
GND
GND
R-CH
FRONT
L-CH
GND
GND
R-CH
SURROUND
CENTER
GND



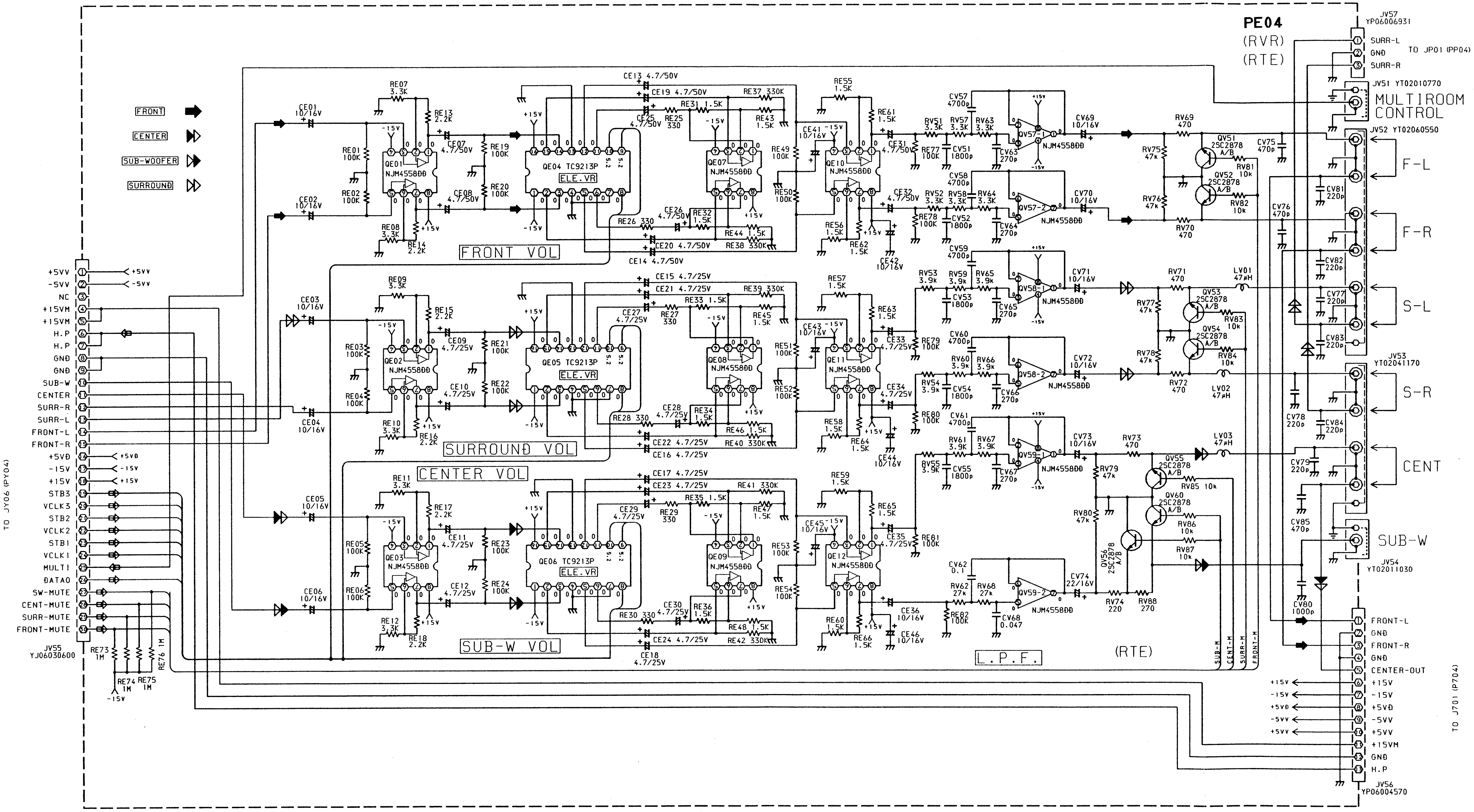
/02 Version

U, K, KK Version

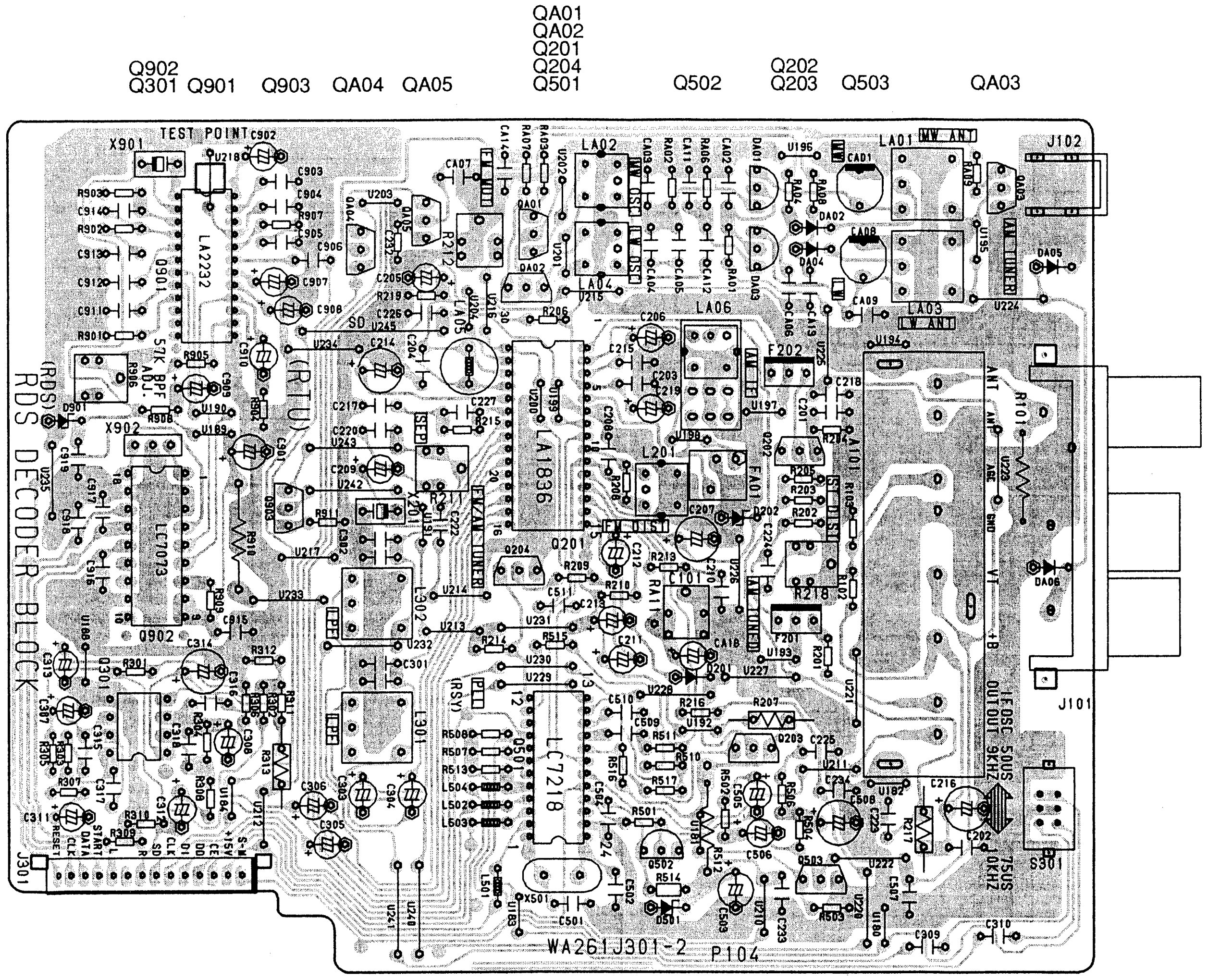


PE04
(RVR)
(RTE)
FRONT
CENTER
SUB-WOOFER
SURROUND
FRONT VOL
SURROUND VOL
CENTER VOL
SUB-W VOL
L.P.F.
ELE.VR
QE04 TC9213P
QE05 TC9213P
QE06 TC9213P
NJM4558DD
JV57
YP06006931
SURR-L
GND
SURR-R
TO JP01 (PP04)
JV51
YT02010770
MULTIROOM
CONTROL
F-L
F-R
S-L
S-R
CENT
SUB-W
JV52
YT02060510
JV53
YT02041120
JV54
YT02010790
QV51 2SC2878 A/B
QV52 2SC2878 A/B
QV53 2SC2878 A/B
QV54 2SC2878 A/B
QV55 2SC2878 A/B
QV56 2SC2878 A/B
QV60 2SC2878 A/B
LV01
LV02
LV03
+5VV
-5VV
NC
+15VM
+15VM
H.P
H.P
GND
GND
SUB-W
CENTER
SURR-R
SURR-L
FRONT-L
FRONT-R
+5VD
-15V
+15V
STB3
VCLK3
STB2
VCLK2
STB1
VCLK1
MULTI
DATA0
SW-MUTE
CENT-MUTE
SURR-MUTE
FRONT-MUTE
JV55
YJ06030600
TO JY06 (PY04)
RE73 1M
RE74 1M
RE75 1M
RE76 1M
-15V
FRONT-L
GND
FRONT-R
GND
CENTER-OUT
+15V
-15V
+5VD
-5VV
+5VV
+15VM
GND
H.P
JV56
YP06004570
TO J701 (P704)
SUB-M
CENT-M
SURR-M
FRONT-M

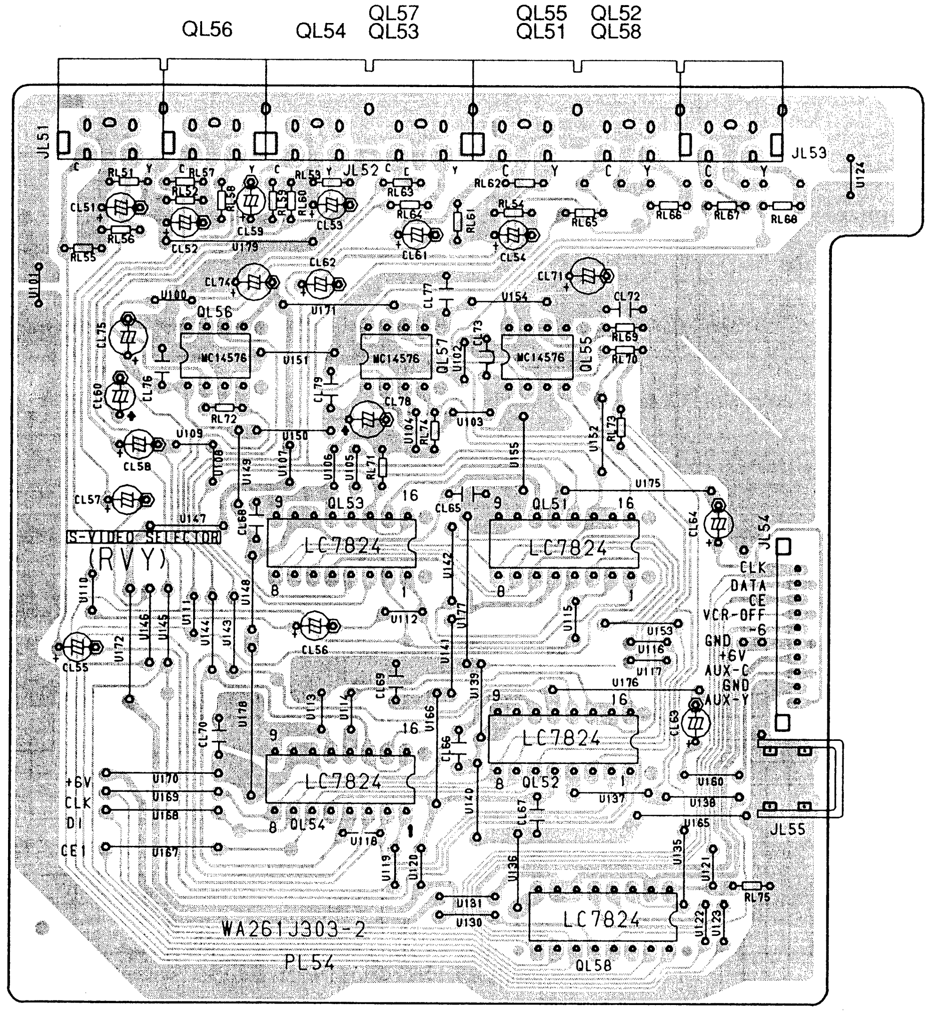
/02 Version


PE04
(RVR)
(RTE)
FRONT
CENTER
SUB-WOOFER
SURROUND
FRONT VOL
SURROUND VOL
CENTER VOL
SUB-W VOL
L.P.F.
(RTE)
QE04 TC9213P
QE05 TC9213P
QE06 TC9213P
ELE.VR
QE01 NJM4558DD
QE02 NJM4558DD
QE03 NJM4558DD
QE07 NJM4558DD
QE08 NJM4558DD
QE09 NJM4558DD
QE10 NJM4558DD
QE11 NJM4558DD
QE12 NJM4558DD
QV57-1 NJM4558DD
QV57-2 NJM4558DD
QV58-1 NJM4558DD
QV58-2 NJM4558DD
QV59-1 NJM4558DD
QV59-2 NJM4558DD
QV51 2SC2878 A/B
QV52 2SC2878 A/B
QV53 2SC2878 A/B
QV54 2SC2878 A/B
QV55 2SC2878 A/B
QV56 2SC2878 A/B
QV60 2SC2878 A/B
JV57 YP06006931
SURR-L
GND
SURR-R
TO JP01 (PP04)
JV51 YT02010770
MULTIROOM CONTROL
JV52 YT02060550
F-L
F-R
S-L
JV53 YT02041170
S-R
CENT
SUB-W
JV54 YT02011030
FRONT-L
GND
FRONT-R
GND
CENTER-OUT
+15V
-15V
+5VD
-5VV
+5VV
+15VM
GND
H.P
JV56 YP06004570
TO J701 (P704)
+5VV
-5VV
NC
+15VM
+15VM
H.P
H.P
GND
GND
SUB-W
CENTER
SURR-R
SURR-L
FRONT-L
FRONT-R
+5VD
-15V
+15V
STB3
VCLK3
STB2
VCLK2
STB1
VCLK1
MULTI
DATA0
SW-MUTE
CENT-MUTE
SURR-MUTE
FRONT-MUTE
JV55 YJ06030600
TO JY06 (PY04)
RE73 1M
RE74 1M
RE75 1M
RE76 1M
SUB-M
CENT-M
SURR-M
FRONT-M
LV01 47μH
LV02 47μH
LV03 47μH

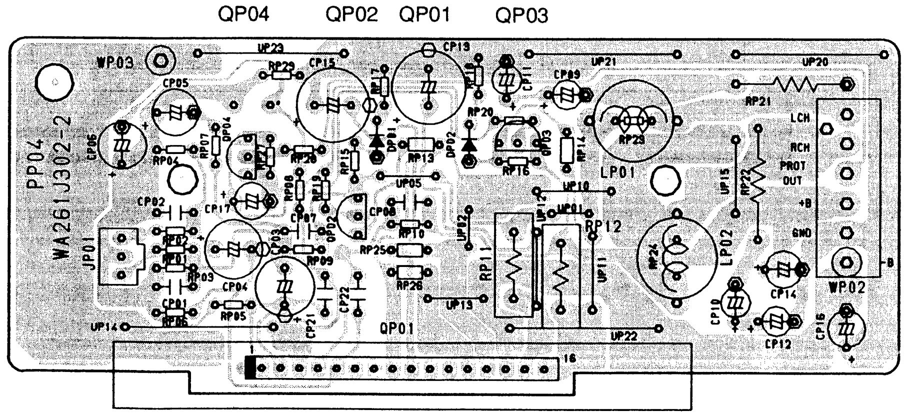
P104-Tuner P.C.Board


Q902
Q301
Q901
Q903
QA04
QA05
QA01
QA02
Q201
Q204
Q501
Q502
Q202
Q203
Q503
QA03
LA2232
LC7073
LA1836
LC7218
RDS DECODER BLOCK
WA261J301-2 P104

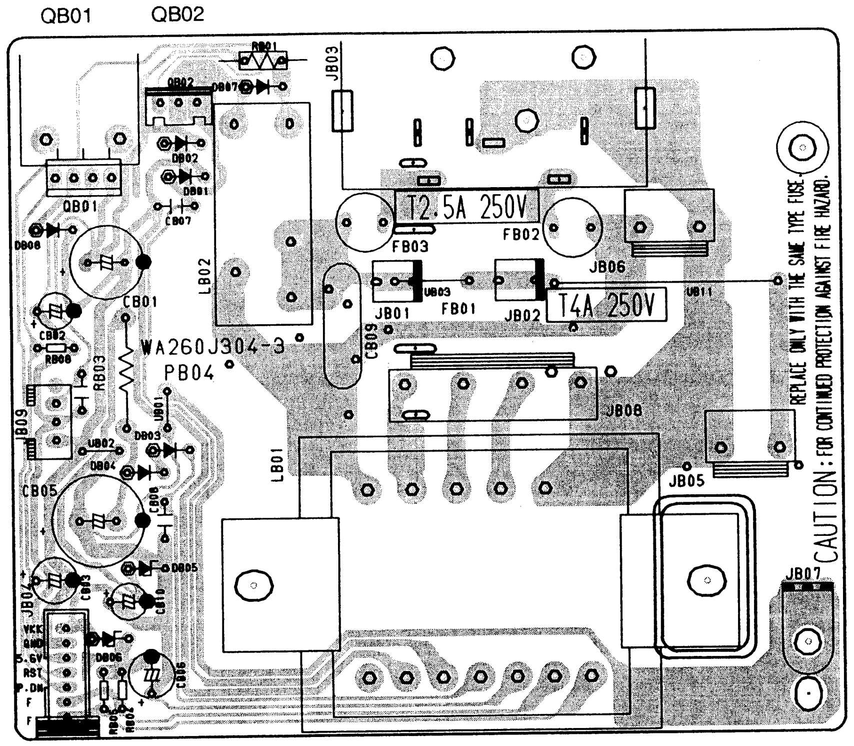
PL54-S-Video P.C.Board (SR870 only)


QL56
QL54
QL57
QL53
QL55
QL51
QL52
QL58
MC14576
LC7824
S-VIDEO SELECTOR (RVY)
WA261J303-2
PL54

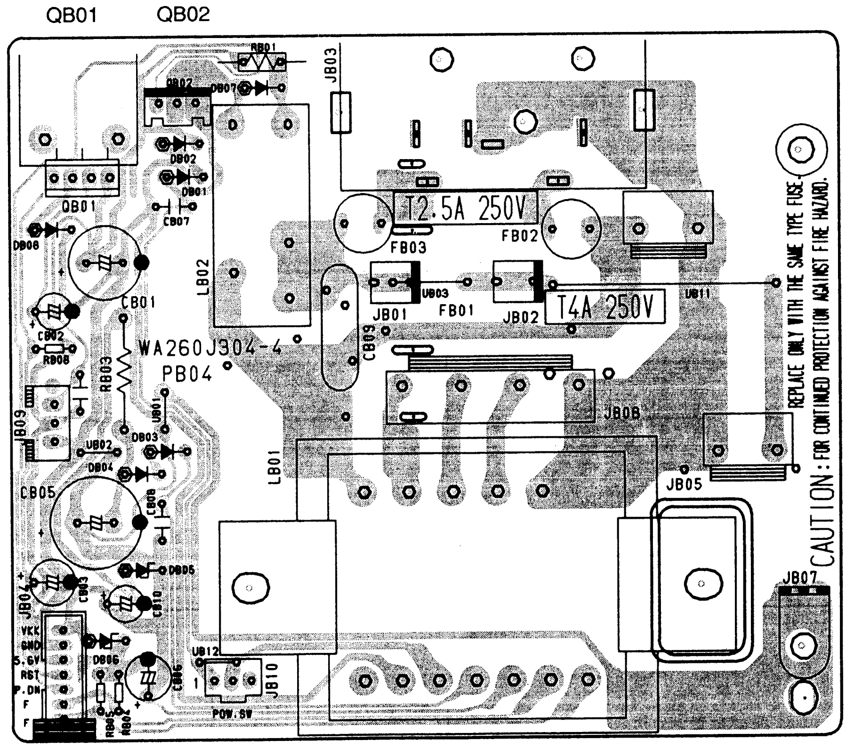
PP04-Surround P.C.Board


QP04
QP02
QP01
QP03
PP04
WA261J302-2

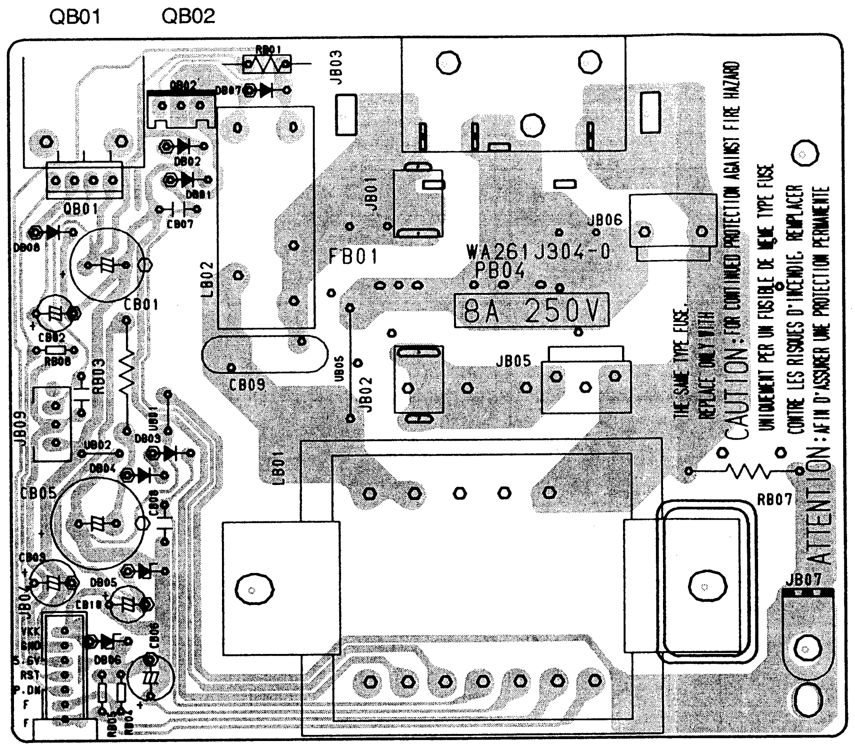
PB04-Back Up P.C.Board
(K, /02B version) [TACT]


QB01
QB02
T2.5A 250V
T4A 250V
FB01
FB02
FB03
WA260J304-3
PB04
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. REPLACE ONLY WITH THE SAME TYPE FUSE.
VKK
GND
5.6V
RST
P.DN
F

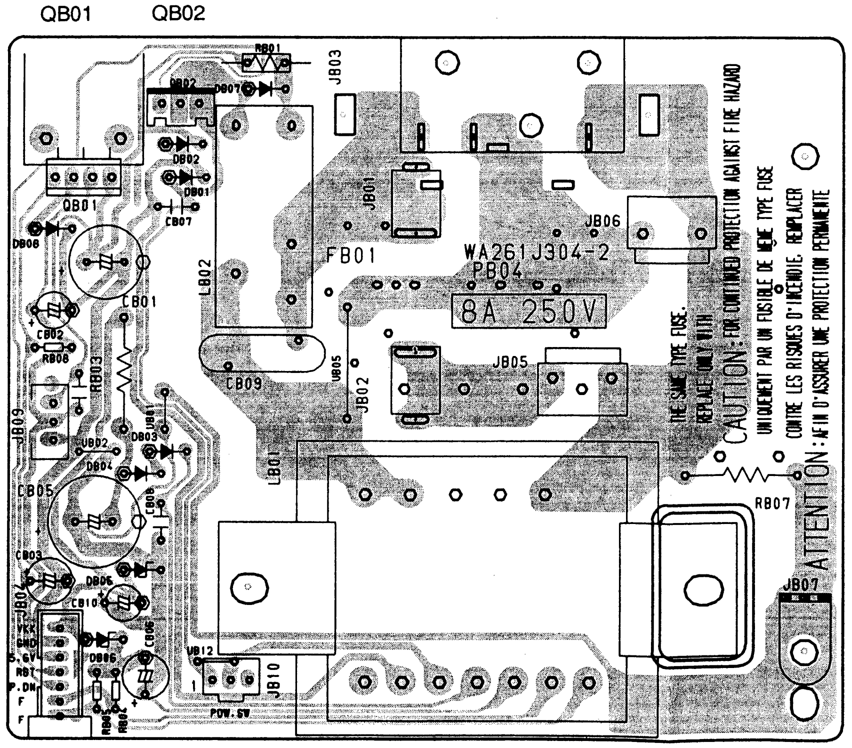
PB04-Back Up P.C.Board
(K, /02B version) [MOMS]


QB01
QB02
T2.5A 250V
T4A 250V
FB01
FB02
FB03
WA260J304-4
PB04
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. REPLACE ONLY WITH THE SAME TYPE FUSE.
POW.SW
VKK
GND
5.6V
RST
P.DN
F

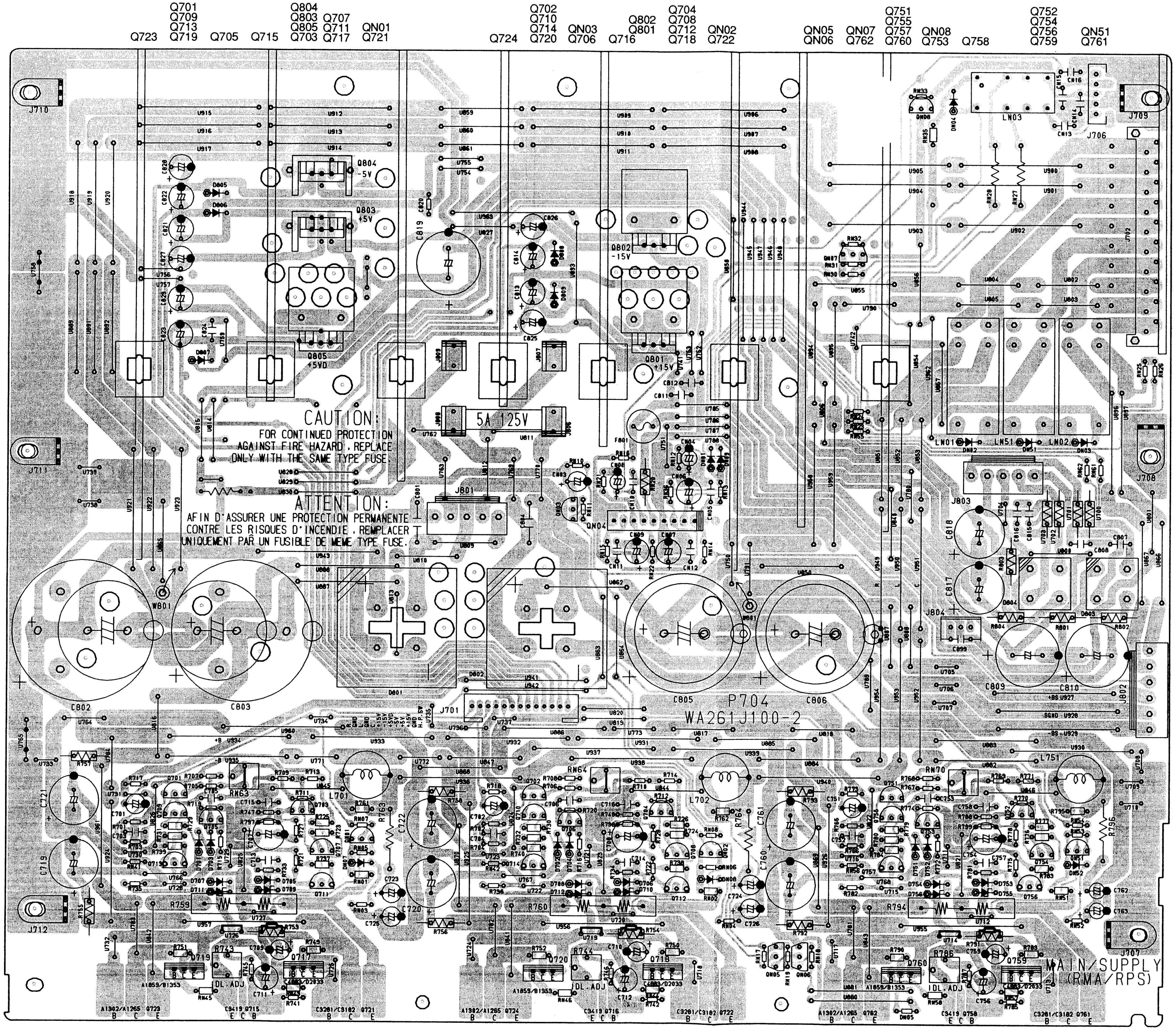
PB04-Back Up P.C.Board
(U, KK version) [TACT]


QB01
QB02
FB01
WA261J304-0
PB04
8A 250V
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE FUSE
VKK
GND
5.6V
RST
P.DN
F

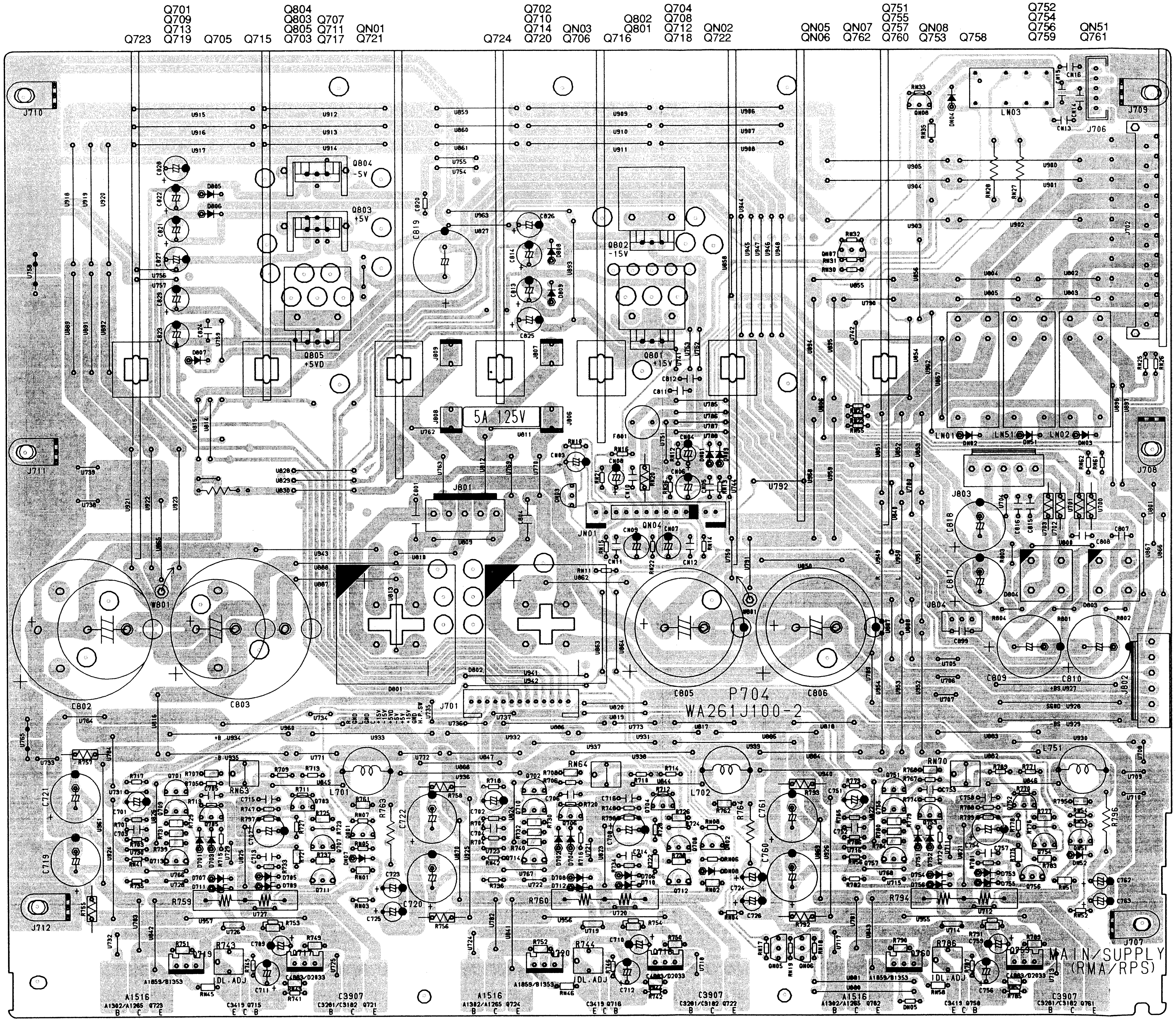
PB04-Back Up P.C.Board
(U, KK version) [MOMS]


QB01
QB02
FB01
WA261J304-2
PB04
8A 250V
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE FUSE
POW.SW
VKK
GND
5.6V
RST
P.DN
F

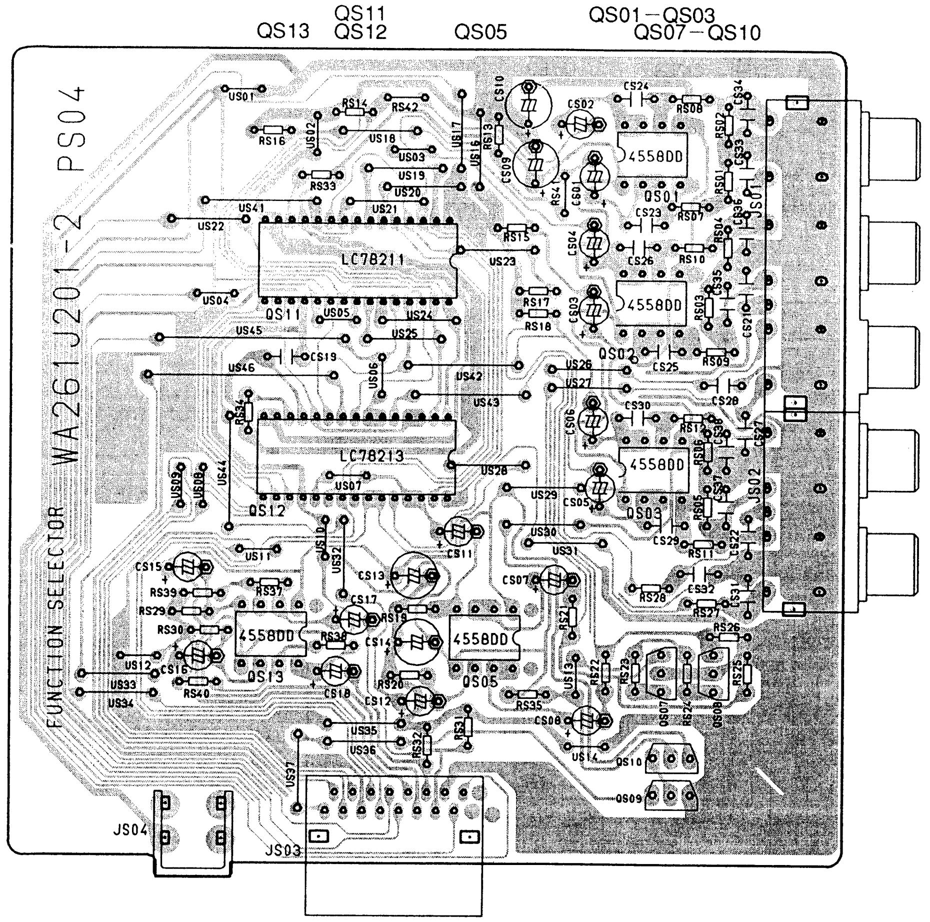
P704-Main Amp P.C.Board [TACT]


Q723
Q701 Q709 Q713 Q719
Q705
Q715
Q804 Q803 Q805 Q703
Q707 Q711 Q717
QN01 Q721
Q724
Q702 Q710 Q714 Q720
QN03 Q706
Q716
Q802 Q801
Q704 Q708 Q712 Q718
QN02 Q722
QN05 QN06
QN07 Q762
Q751 Q755 Q757 Q760
QN08 Q753
Q758
Q752 Q754 Q756 Q759
QN51 Q761
J710
J709
J706
LN03
J711
J708
J712
J707
Q804 -5V
Q803 +5V
Q805 +5VD
Q802 -15V
Q801 +15V
C819
CAUTION:
FOR CONTINUED PROTECTION
AGAINST FIRE HAZARD, REPLACE
ONLY WITH THE SAME TYPE FUSE.
5A 125V
F801
ATTENTION:
AFIN D'ASSURER UNE PROTECTION PERMANENTE
CONTRE LES RISQUES D'INCENDIE, REMPLACER
UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE FUSE.
J801
J803
J804
J802
J701
WB01
C802
C803
C805
C806
C809
C810
C817
C818
P704
WA261J100-2
C721
C719
C722
C720
C761
C760
L701
L702
L751
R759
R760
R794
R763
R764
R796
DL.ADJ
DL.ADJ
IDL.ADJ
MAIN/SUPPLY
(RMA/RPS)
A1302/A1265 Q723
B C E
C3419 Q715
E C B
C3281/C3182 Q721
B C E
A1302/A1265 Q724
B C E
C3419 Q716
E C B
C3281/C3182 Q722
B C E
A1302/A1265 Q762
B C E
C3419 Q758
E C B
C3281/C3182 Q761
B C E
A1859/B1353
C4883/D2033

P704-Main Amp P.C.Board [MOMS]

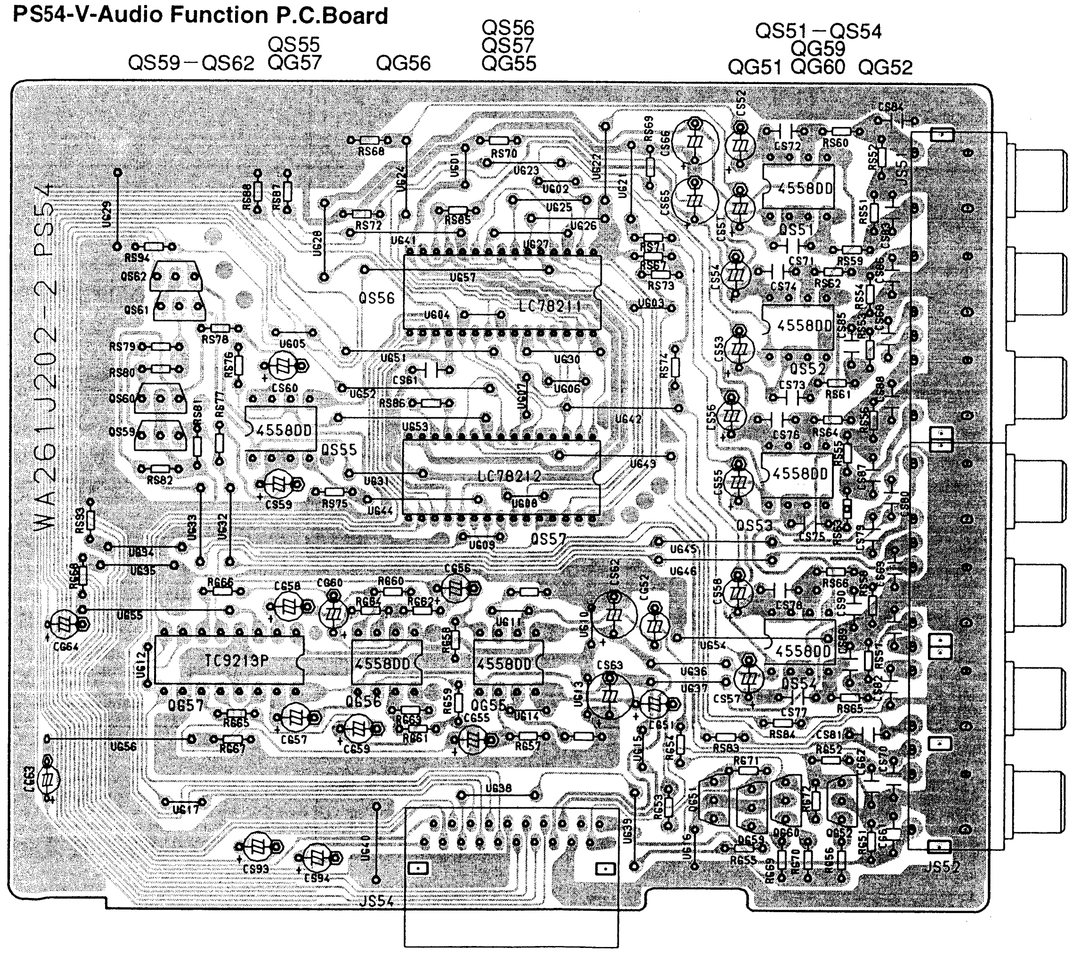

Q723
Q701 Q709 Q713 Q719
Q705
Q715
Q804 Q803 Q805 Q703
Q707 Q711 Q717
QN01 Q721
Q724
Q702 Q710 Q714 Q720
QN03 Q706
Q716
Q802 Q801
Q704 Q708 Q712 Q718
QN02 Q722
QN05 QN06
QN07 Q762
Q751 Q755 Q757 Q760
QN08 Q753
Q758
Q752 Q754 Q756 Q759
QN51 Q761
J710
J711
J712
J709
J706
J708
J707
LN03
Q804 -5V
Q803 +5V
Q805 +5VD
Q802 -15V
Q801 +15V
5A 125V
J801
JN01
QN04
J803
JB04
C802
C803
C805
C806
C809
C810
J802
J701
P704
WA261J100-2
L701
L702
L751
R759
R760
R794
IDL.ADJ
IDL.ADJ
IDL.ADJ
A1516
A1302/A1265 Q723
B C E
C3419 Q715
E C B
C3907
C3281/C3182 Q721
B C E
A1859/B1353
A1516
A1302/A1265 Q724
B C E
C3419 Q716
E C B
C3907
C3281/C3182 Q722
B C E
A1859/B1353
A1516
A1302/A1265 Q762
B C E
C3419 Q758
E C B
C3907
C3281/C3182 Q761
B C E
A1859/B1353
MAIN/SUPPLY
(RMA/RPS)

PS04-Audio Function P.C.Board



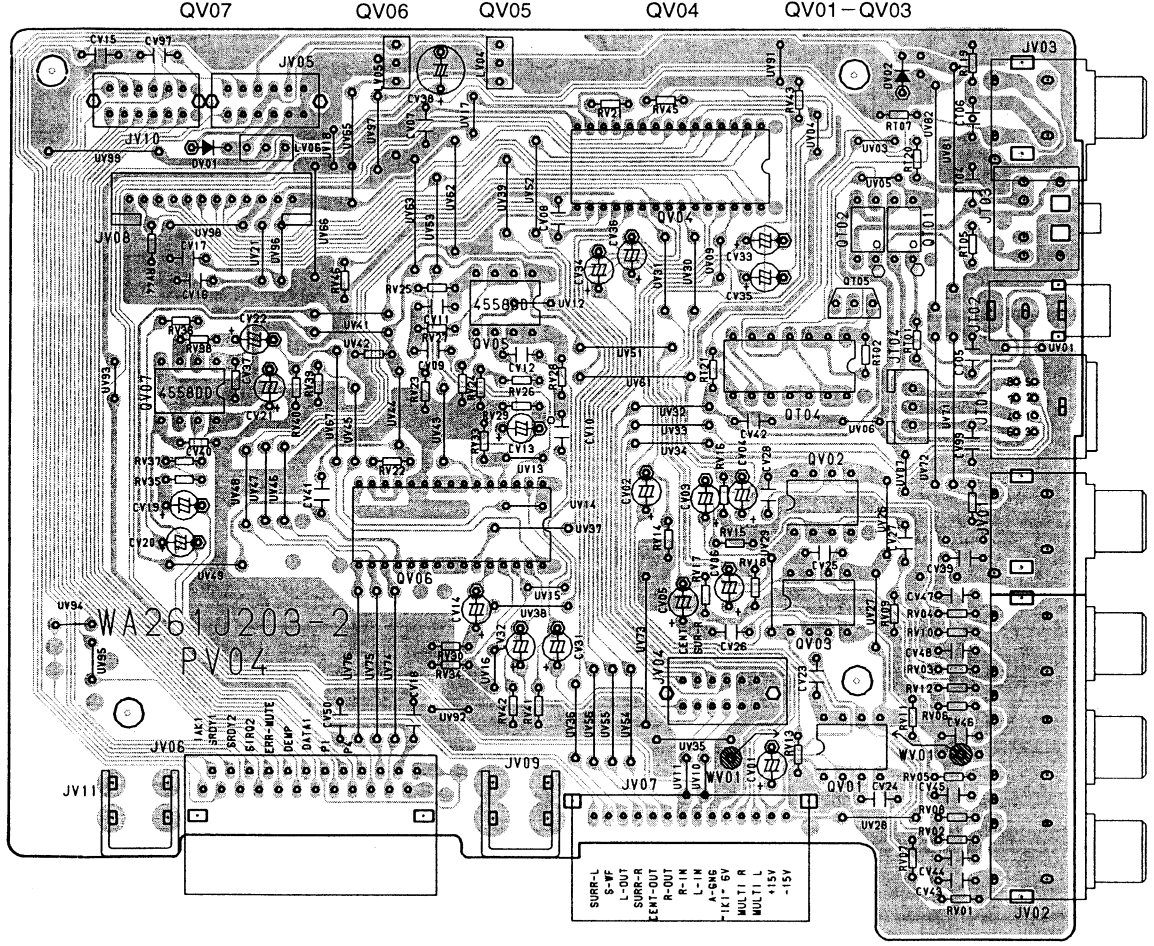
QS13
QS11
QS12
QS05
QS01－QS03
QS07－QS10
PS04
WA261J201-2
FUNCTION SELECTOR
LC78211
LC78213
4558DD
JS04
JS03

PS54-V-Audio Function P.C.Board



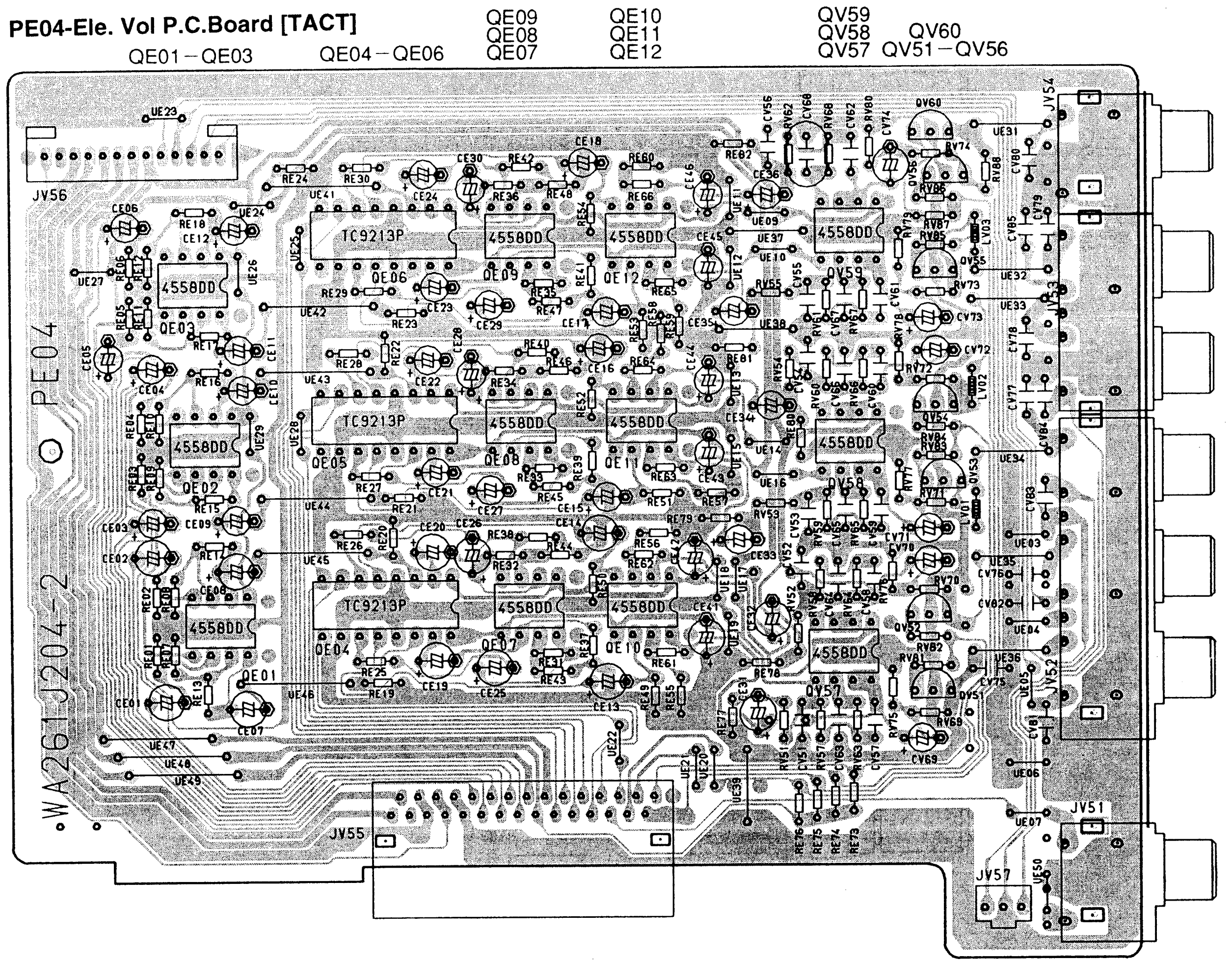
QS59－QS62
QS55
QG57
QG56
QS56
QS57
QG55
QS51－QS54
QG59
QG51
QG60
QG52
WA261J202-2 PS54
LC78211
LC78212
TC9213P
4558DD
JS54
JS52

PV04-Direct In P.C.Board

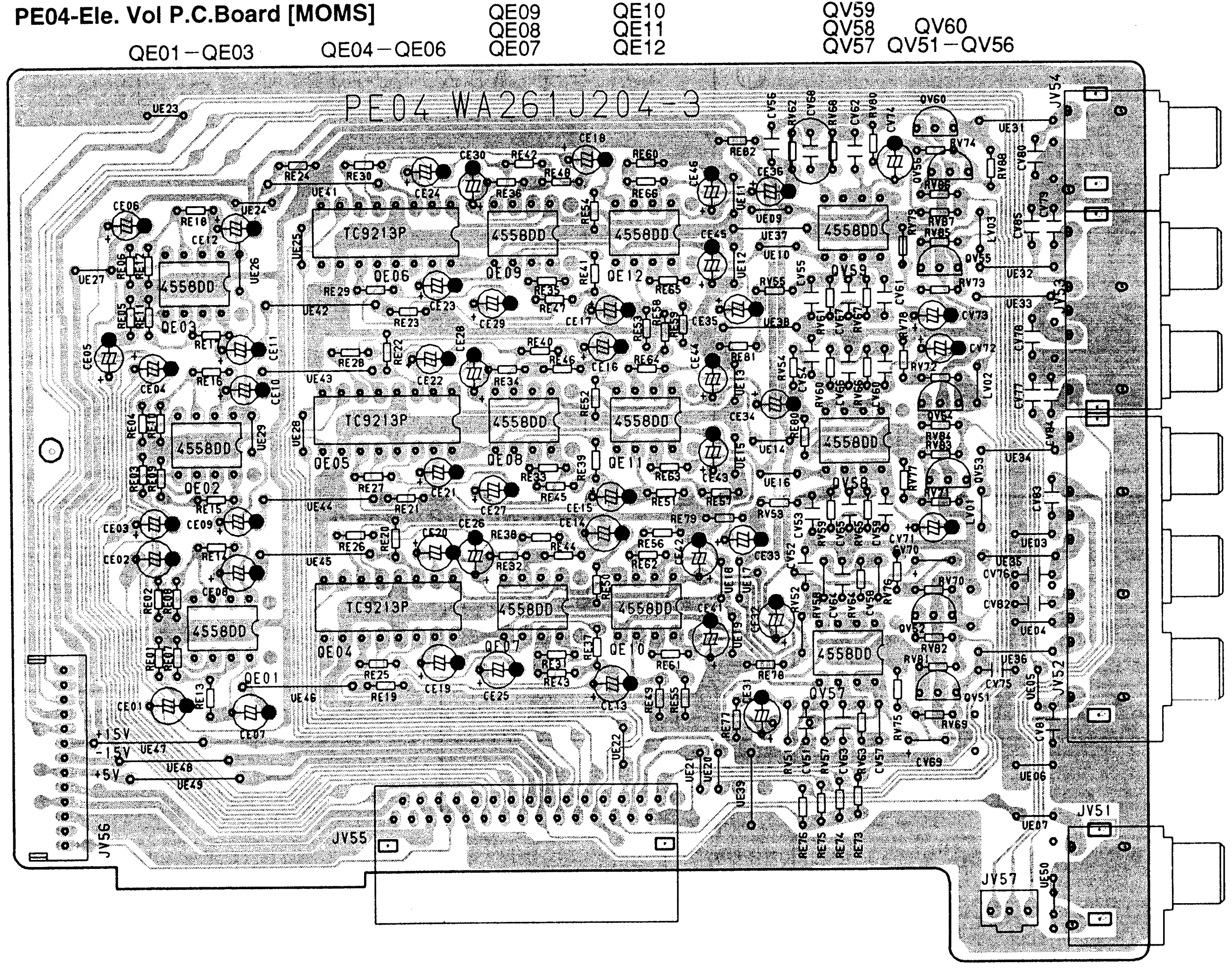


QT01
QT02
QT04 QT05
QV07
QV06
QV05
QV04
QV01－QV03
WA261J203-2
PV04
JV03
JV02
JV05
JV06
JV07
JV08
JV09
JV10
JV11
4558DD
SURR-L
S-WF
L-OUT
SURR-R
CENT-OUT
R-OUT
R-IN
L-IN
A-GND
MULTI R
MULTI L
+15V
-15V

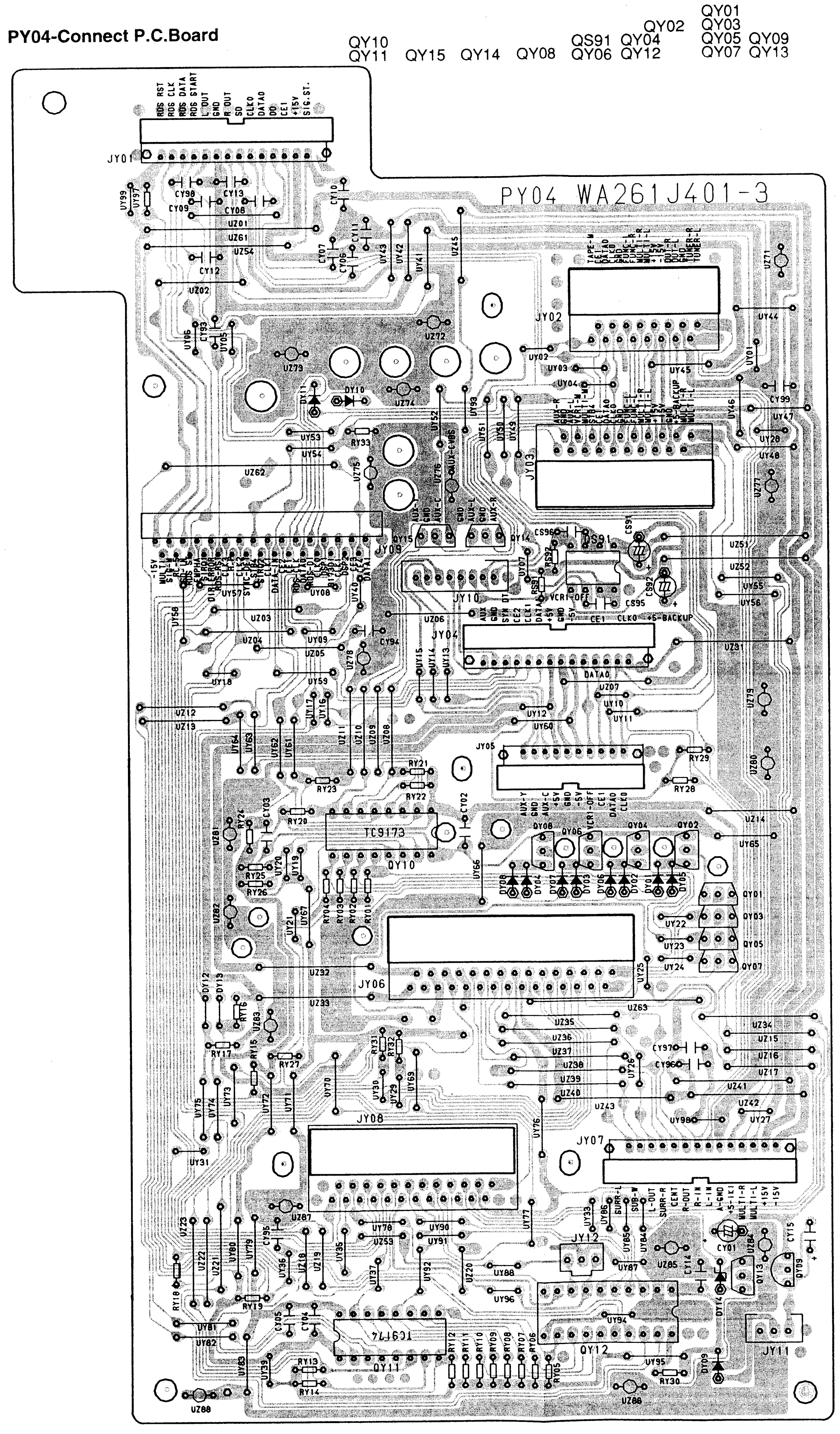
PE04-Ele. Vol P.C.Board [TACT]


QE01 – QE03
QE04 – QE06
QE09
QE08
QE07
QE10
QE11
QE12
QV59
QV58
QV57
QV60
QV51 – QV56
PE04 WA261J204-2
TC9213P
4558DD
JV56
JV55
JV54
JV52
JV51
JV57

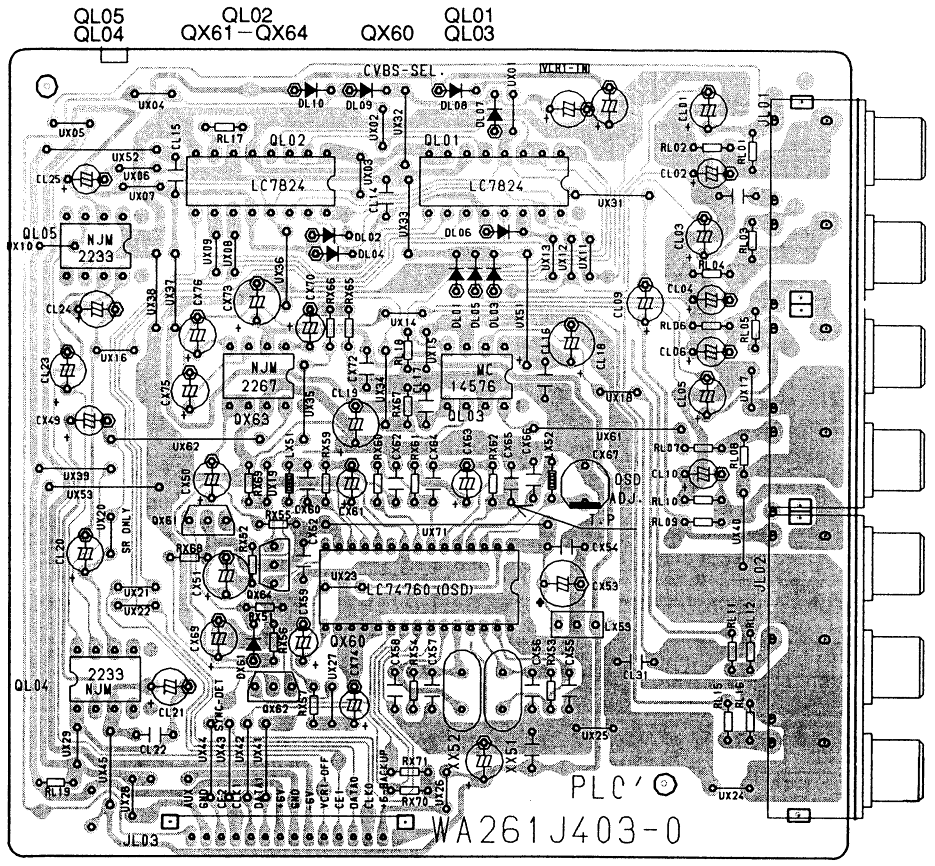
PE04-Ele. Vol P.C.Board [MOMS]


QE01 – QE03
QE04 – QE06
QE09
QE08
QE07
QE10
QE11
QE12
QV59
QV58
QV57
QV60
QV51 – QV56
PE04 WA261J204-3
TC9213P
4558DD
JV56
JV55
JV54
JV52
JV51
JV57
+15V
-15V
+5V

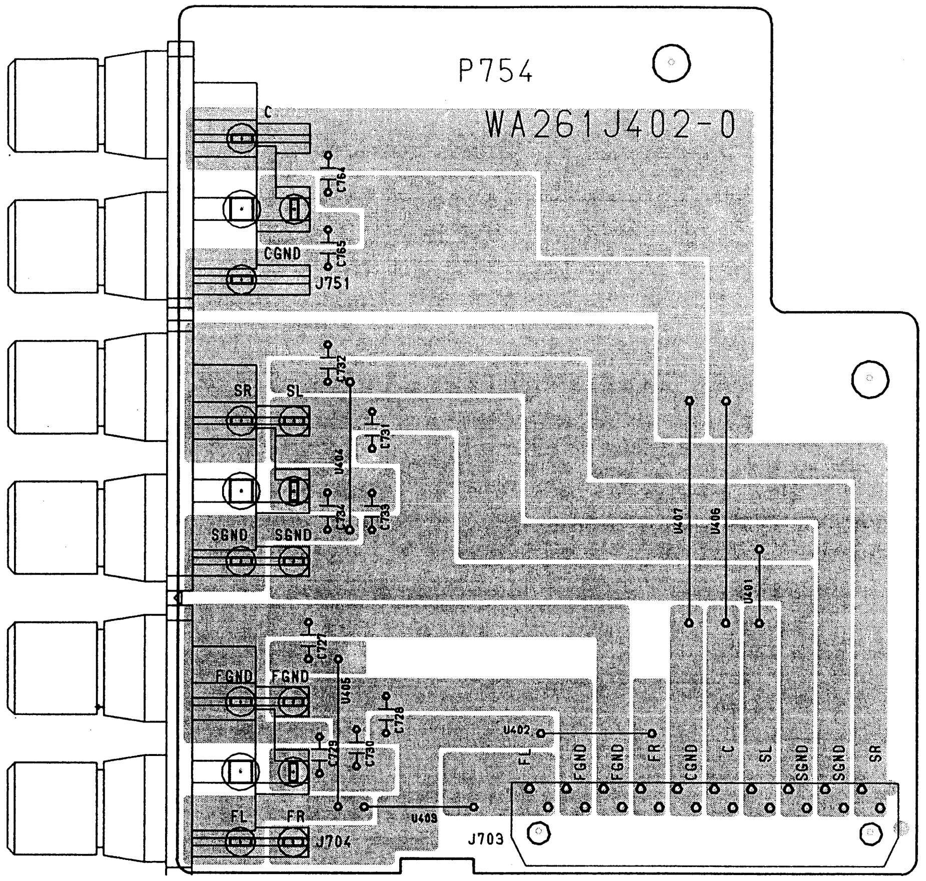
PY04-Connect P.C.Board


QY10
QY11
QY15
QY14
QY08
QS91
QY06
QY02
QY04
QY12
QY01
QY03
QY05
QY07
QY09
QY13
PY04 WA261J401-3
JY01
JY02
JY03
JY04
JY05
JY06
JY07
JY08
JY10
JY11
JY12
TC9173
TC9174

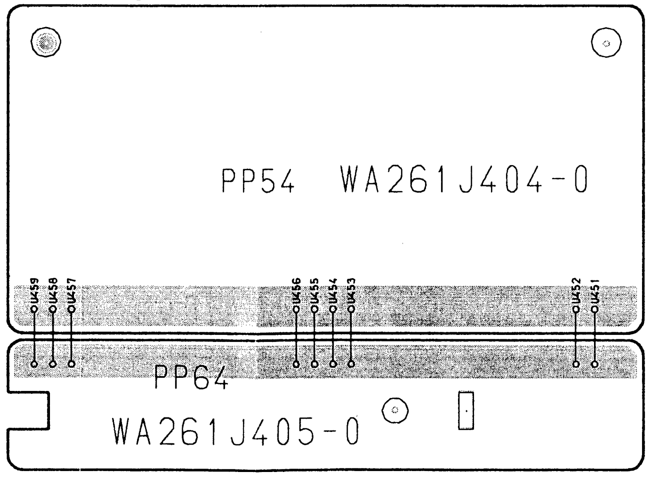
PL04-Video Selector P.C.Board


QL05
QL04
QL02
QX61−QX64
QX60
QL01
QL03
CVBS-SEL
VCR1-IN
LC7824
LC7824
NJM 2233
NJM 2267
MC 14576
LC74760 (OSD)
OSD ADJ.
NJM 2233
QX63
QX60
PLC'
WA261J403-0
JL03

P754-SPK Terminal P.C.Board

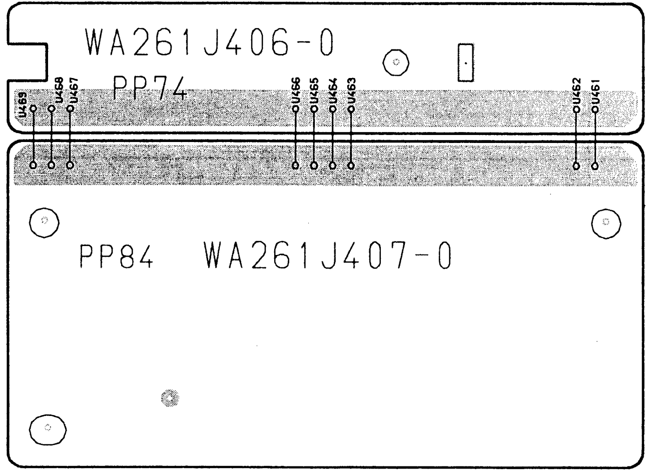

P754
WA261J402-0
C
CGND
J751
SR
SL
SGND
SGND
FGND
FGND
FL
FR
J704
J703
FGND
FGND
FR
CGND
C
SL
SGND
SGND
SR

PP54-Wiring P.C.Board


PP54 WA261J404-0
PP64
WA261J405-0

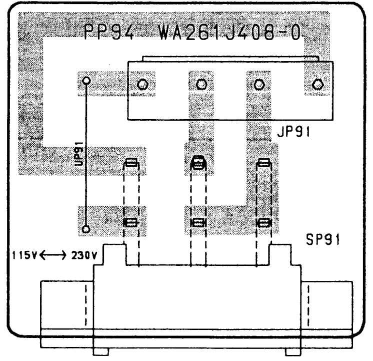
PP64-Wiring P.C.Board

PP74-Wiring P.C.Board

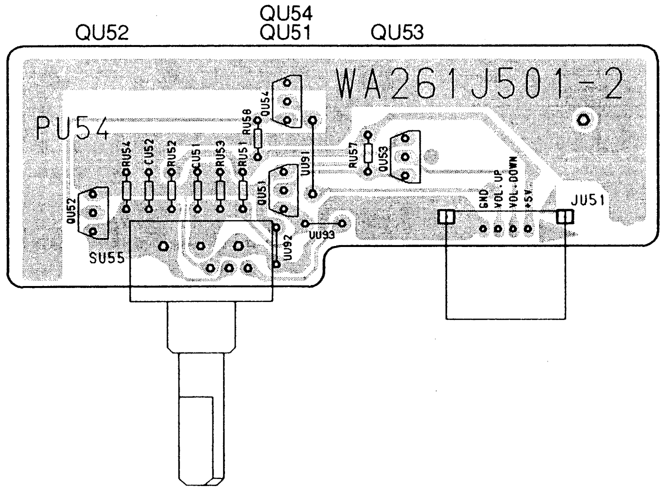

WA261J406-0
PP74
PP84 WA261J407-0

PP84-Wiring P.C.Board

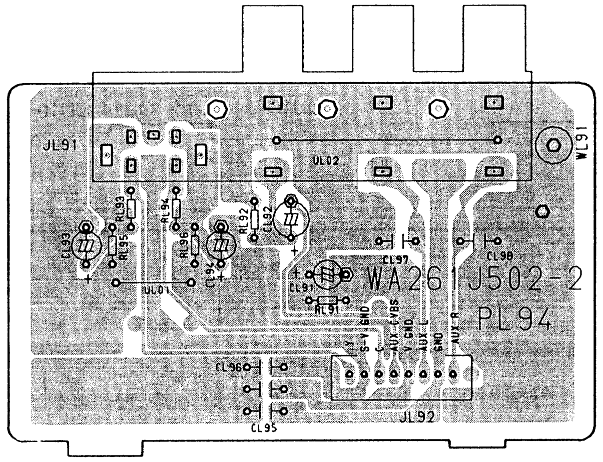
PP94-Vol-Sel P.C.Board (K version only)


PP94 WA261J408-0
JP91
SP91
115V⟷230V

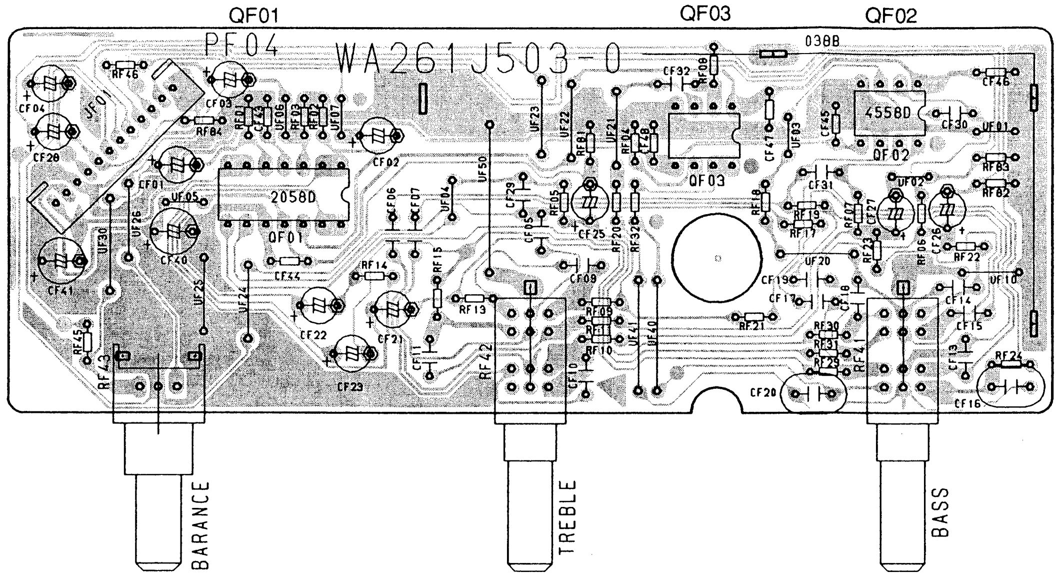
PU54-Master Vol P.C.Board


QU52
QU54
QU51
QU53
WA261J501-2
PU54
SU55
JU51

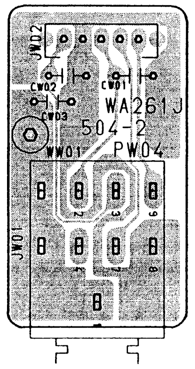
PL94-Aux In P.C.Board


JL91
WL91
UL02
WA261J502-2
PL94
JL92

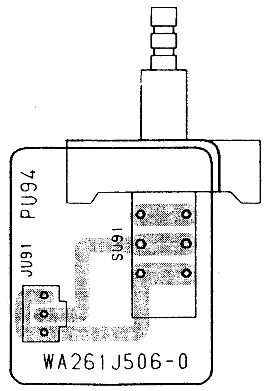
PF04-Tone P.C.Board


QF01
QF03
QF02
PF04
WA261J503-0
2058D
4558D
BARANCE
TREBLE
BASS

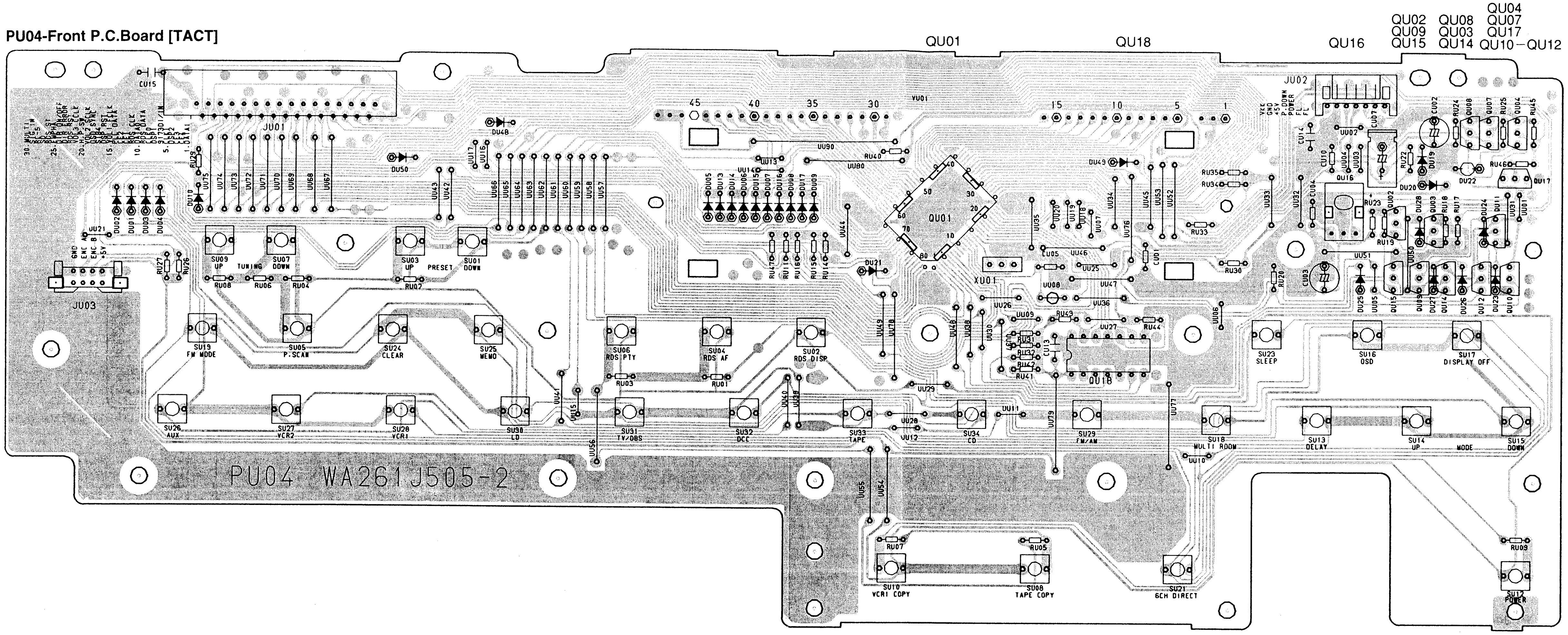
PW04-H.P. P.C.Board


WA261J
504-2
PW04
JW01

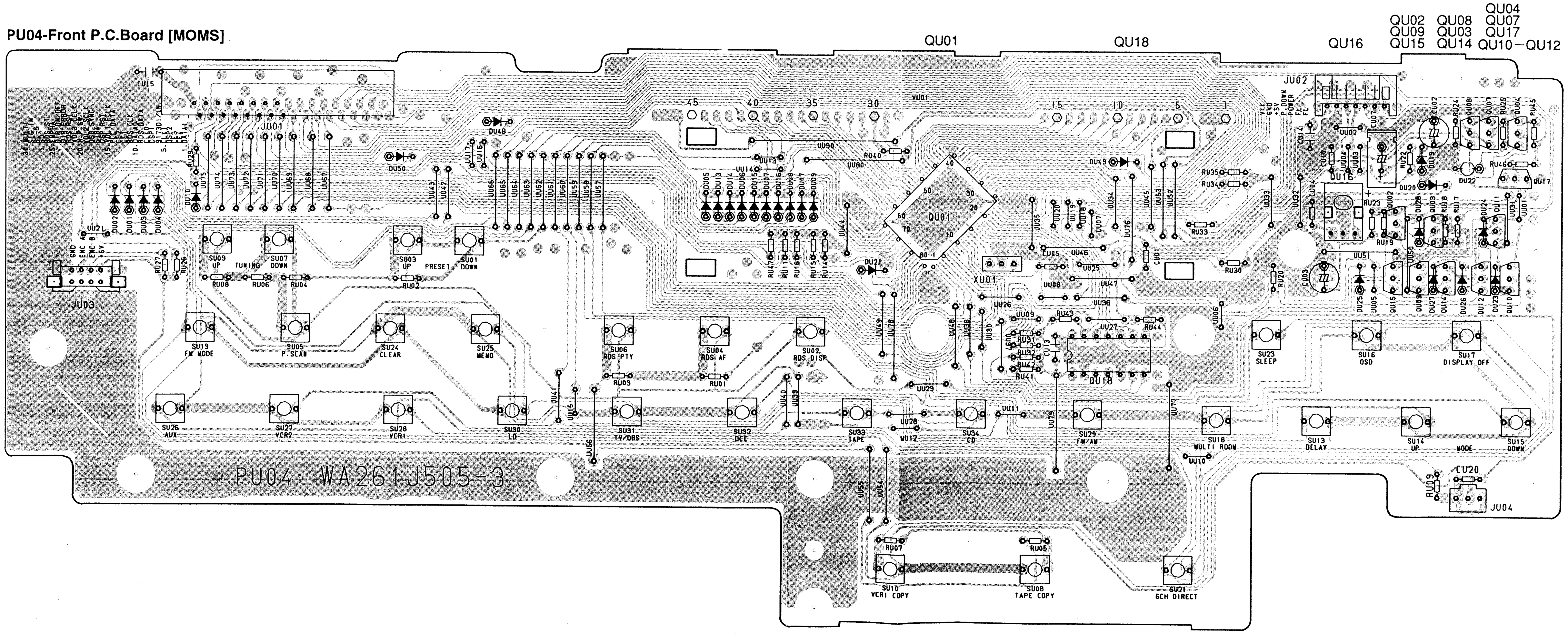
PU94-Power SW P.C.Board
[MOMS] ONLY


PU94
SU91
JU91
WA261J506-0

PU04-Front P.C.Board [TACT]


QU04
QU02 QU08 QU07
QU09 QU03 QU17
QU16 QU15 QU14 QU10−QU12
QU01
QU18
JU01
JU02
JU03
XU01
SU09 UP
TUNING
SU07 DOWN
SU03 UP
PRESET
SU01 DOWN
SU19 FM MODE
SU05 P.SCAN
SU24 CLEAR
SU25 MEMO
SU06 RDS PTY
SU04 RDS AF
SU02 RDS DISP
SU23 SLEEP
SU16 OSD
SU17 DISPLAY OFF
SU26 AUX
SU27 VCR2
SU28 VCR1
SU30 LD
SU31 TV/DBS
SU32 DCC
SU33 TAPE
SU34 CD
SU29 FM/AM
SU18 MULTI ROOM
SU13 DELAY
SU14 UP
MODE
SU15 DOWN
SU10 VCR1 COPY
SU08 TAPE COPY
SU21 6CH DIRECT
SU12 POWER
PU04 WA261J505-2

PU04-Front P.C.Board [MOMS]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QU09 QU03 QU17
QU16 QU15 QU14 QU10−QU12
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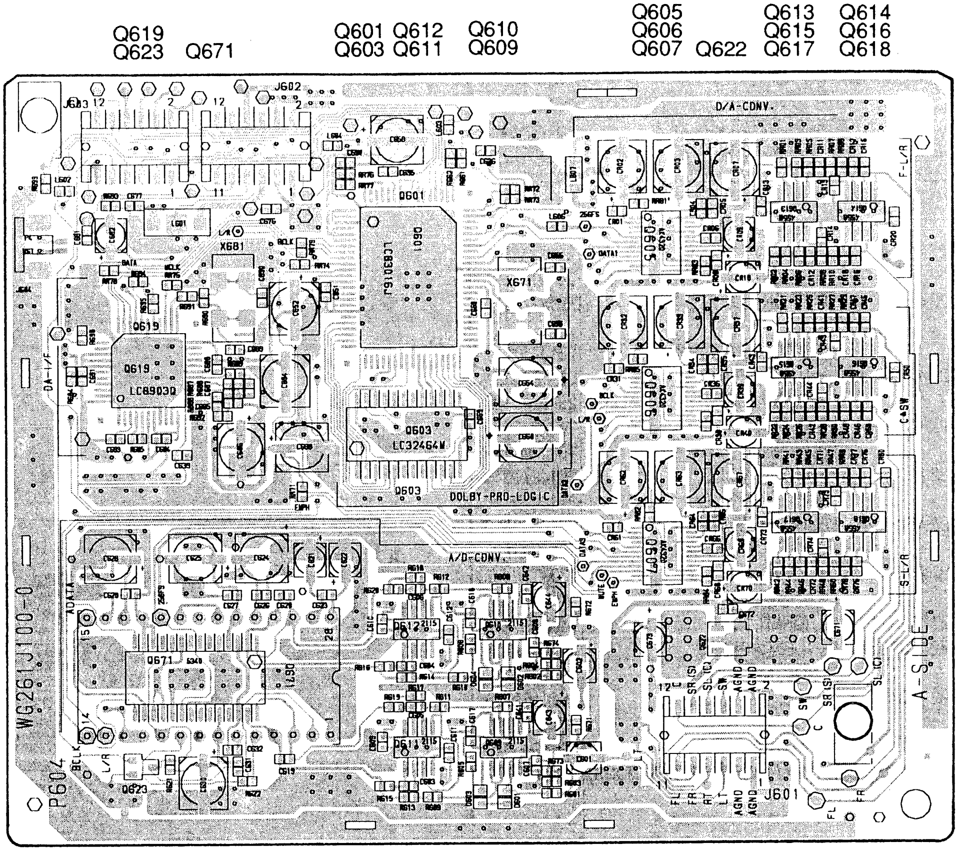
QU18
JU01
JU02
JU03
XU01
SU09 UP
TUNING
SU07 DOWN
SU03 UP
PRESET
SU01 DOWN
SU19 FM MODE
SU05 P.SCAN
SU24 CLEAR
SU25 MEMO
SU06 RDS PTY
SU04 RDS AF
SU02 RDS DISP
SU23 SLEEP
SU16 OSD
SU17 DISPLAY OFF
SU26 AUX
SU27 VCR2
SU28 VCR1
SU30 LD
SU31 TV/DBS
SU32 DCC
SU33 TAPE
SU34 CD
SU29 FM/AM
SU18 MULTI ROOM
SU13 DELAY
SU14 UP
MODE
SU15 DOWN
SU10 VCR1 COPY
SU08 TAPE COPY
SU21 6CH DIRECT
CU20
RU19
JU04
PU04 WA261J505-3

P604-THX Pro-Logic DSP P.C.Board
(Component Side)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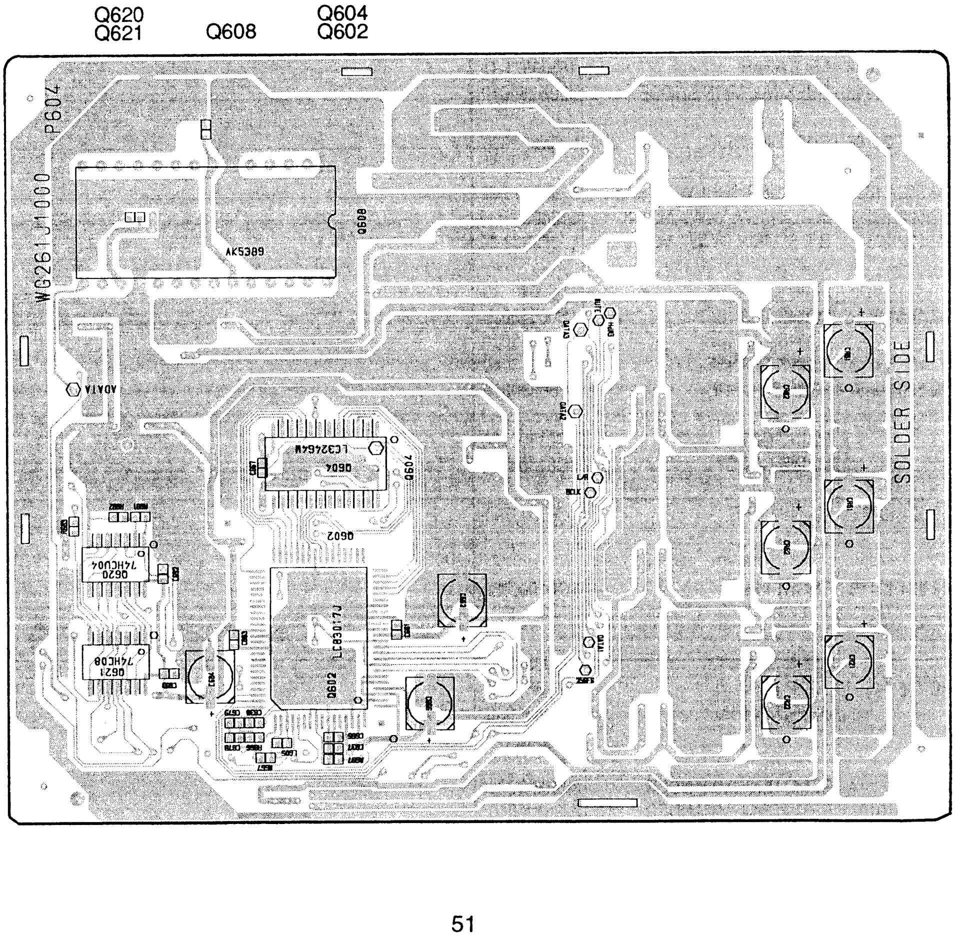
Q617
Q614
Q616
Q618
J602
J603
D/A-CONV.
F-L/R
X681
X671
Q601
LC83016J
Q619
LC89030
DA-I/F
Q603
LC32464W
DOLBY-PRO-LOGIC
C-SW
A/D-CONV.
S-L/R
ADATA
Q671
WG261J1000-0
A-SIDE
J601
Q623
P604

P604-THX Pro-Logic DSP P.C.Board
(Soldering Side)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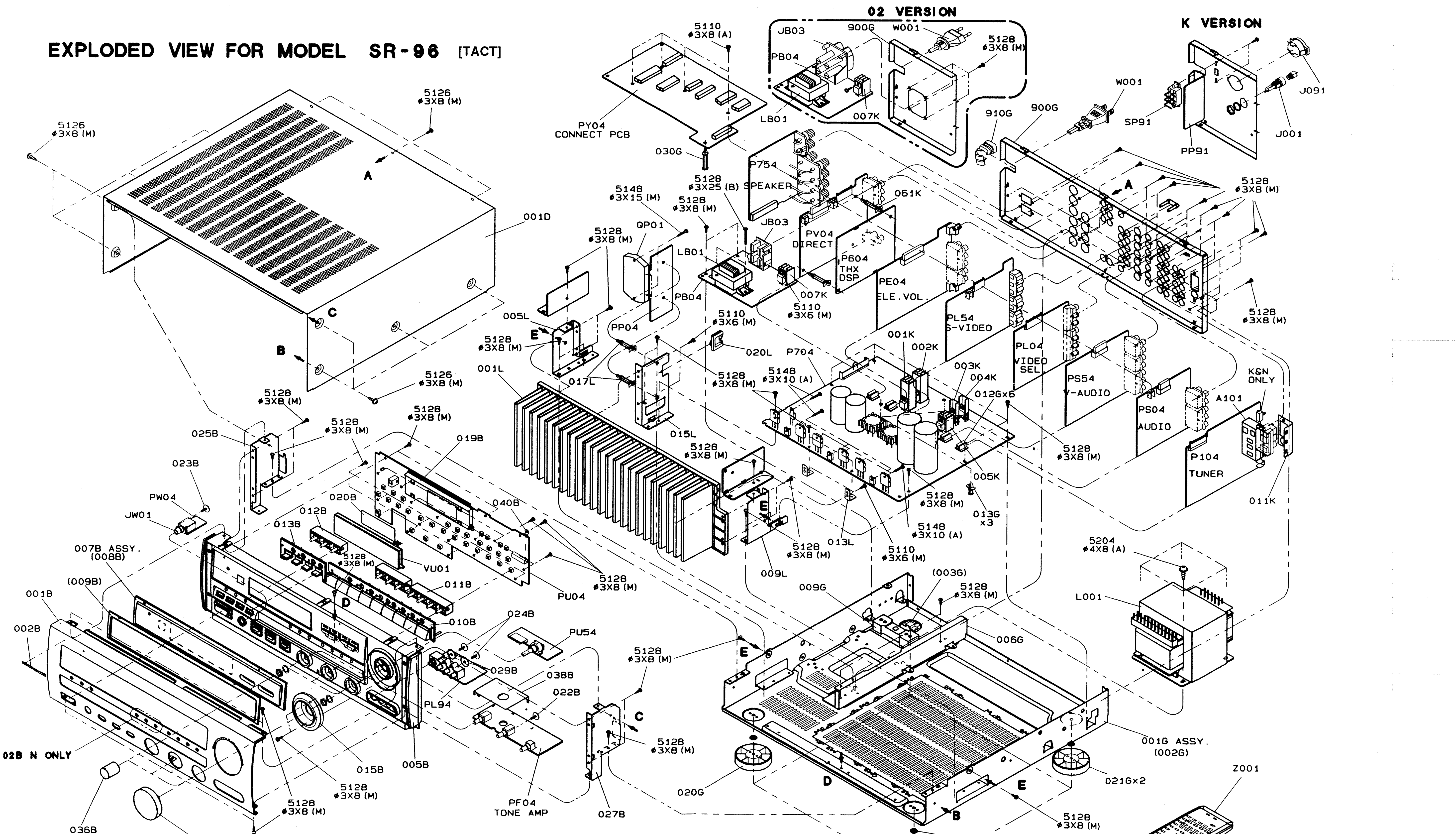
Q604
Q602
P604
WG261J1000
AK5389
Q608
ADATA
LC32464W
Q604
Q602
Q620
74HCU04
Q621
74HC08
LC83017J
SOLDER SIDE

5. EXPLODED VIEW AND PARTS LIST

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
001B	/02B	4822 459 04328	FRONT PANEL	261J248010
001B	KGL,KKGL		FRONT PANEL	261J248120
001B	U,KBL		FRONT PANEL	261J248020
002B	U,/02B,KBL	4822 459 11172	BADGE, MARANTZ	185J251010
002B	KGL,KKGL	4822 459 11173	BADGE, MARANTZ	185J251110
005B	U,/02B,KBL	4822 464 10202	CHASSIS, FRONT	261J105010
005B	KGL,KKGL		CHASSIS, FRONT	261J105110
007B	U,/02B,KBL	4822 450 10183	WINDOW ASSEMBLY	261J158510
007B	KGL,KKGL		WINDOW ASSEMBLY	261J158520
010B	U,/02B,KBL	4822 410 10709	BUTTON, FUNCTION	261J270010
010B	KGL,KKGL		BUTTON, FUNCTION	261J270110
011B	U,/02B,KBL	4822 410 10639	BUTTON, MEMO	261J270020
011B	KGL,KKGL		BUTTON, MEMO	261J270120
012B	U,/02B,KBL	4822 410 10641	BUTTON, OSD	261J270030
012B	KGL,KKGL		BUTTON, OSD	261J270130
013B	U,/02B,KBL	4822 410 10642	BUTTON, MODE	261J270040
013B	KGL,KKGL		BUTTON, MODE	261J270140
015B	U,/02B,KBL	4822 454 13137	ESCUTHCEON, VOL.	261J063010
015B	KGL,KKGL		ESCUTHCEON, VOL.	261J063110
019B		4822 256 92097	HOLDER, FL	183J271020
020B		4822 459 11158	STICKER, FL	056J122010
035B	U,/02B,KBL	4822 410 10643	KNOB, MAIN VOL.	261J154010
035B	KGL,KKGL		KNOB, MAIN VOL.	261J154110
036B	U,/02B,KBL	4822 410 10711	KNOB, TONE VOL.	261J154020
036B	KGL,KKGL		KNOB, TOMNE VOL.	261J154120
040B		4822 401 10935	CLAMPER, WIRE	4220005040
050B		4822 404 21012	JOINT,POWER BUTTON [MOMS]	025J125010
051B	U,/02B,KBL	4822 410 62744	BUTTON, POWER [MOMS]	285K270010
051B	KGL,KKGL	4822 462 72053	BUTTON, POWER [MOMS]	285K270110
005D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
006D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
012G		4822 256 90913	HOLDER	2218271020
020G		4822 462 42045	LEG, FRONT	183J057010
021G		4822 462 42048	LEG, REAR	183J057110
910G		4822 532 60948	BUSHING, MAINS CODE	450H259010
014K	/02B,KBL,KGL	4822 417 20168	BUSHING, SPK	306V259030
018L		4822 502 21337	F.WASHER SCREW M3 x 15	51480315M0
025L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
026L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
⚠L001	U		MAINS TRANSF.	TS60513010
⚠L001	/02B	4822 146 10636	MAINS TRANSF.	TS60513020
⚠L001	KBL,KGL		MAINS TRANSF.	TS60513030
⚠L001	KKGL		MAINS TRANSF.	TS60513040
L002		4822 529 10357	FERRITE CORE	FS50380010
⚠W001	U		MAINS CORD	YC01800780
⚠W001	KBL,KGL, KKGL		MAINS CORD	YC01800790
⚠W001	/02B	4822 321 10985	MAINS CORD	YC01800790
Y001 | Y005		4822 264 10110	SHORT PLUG	YQ01000080
001T	U		USER MANUAL	261J851250
001T	/02B	4822 736 14645	USER MANUAL	261J851310
001T	KBL,KGL, KKGL		USER MANUAL	261J851350
Z001	U		REMOTE COMMANDER	ZK206W0010
Z001		4822 219 10103	REMOTE COMMANDER	ZJ261J0010

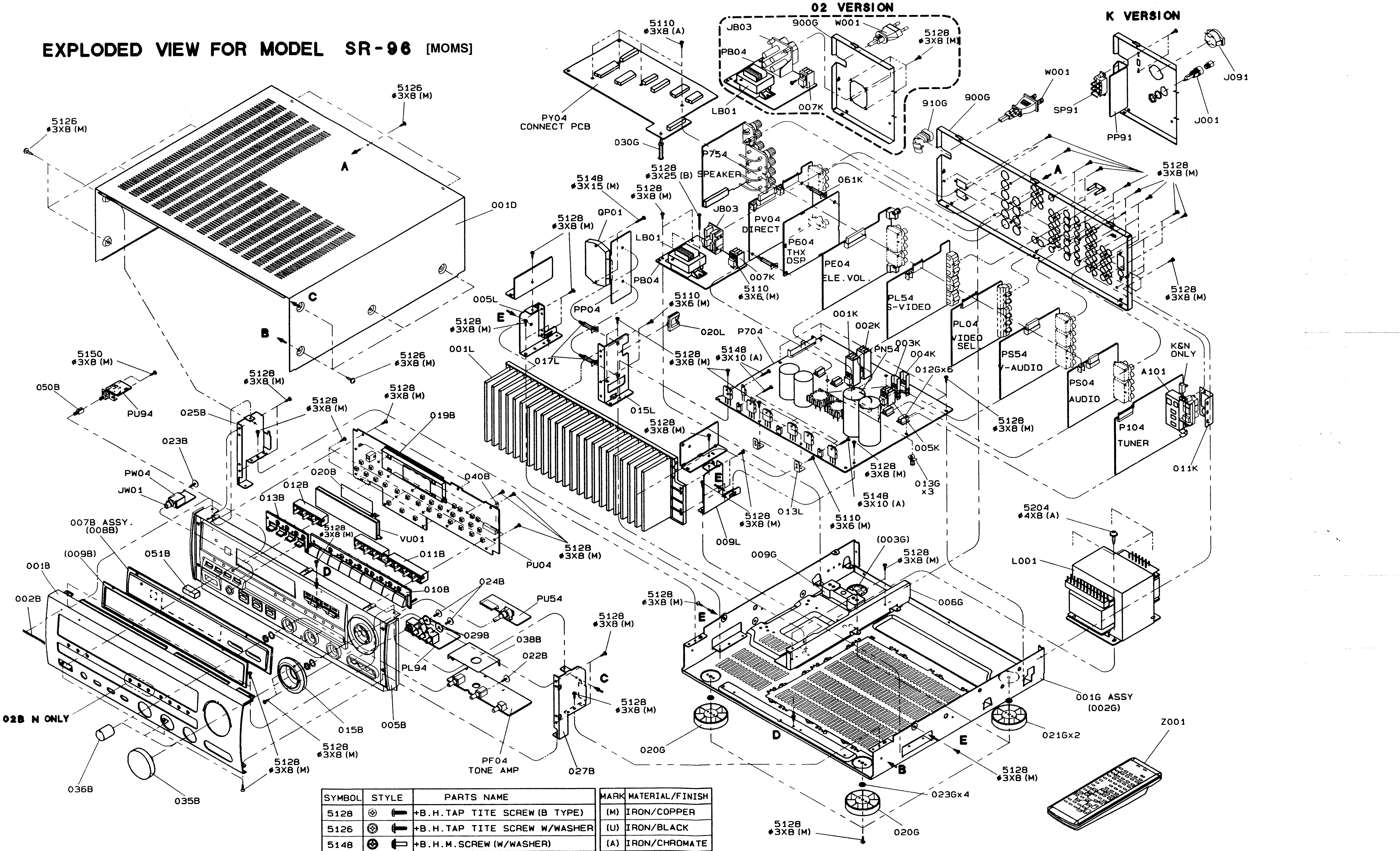
EXPLODED VIEW FOR MODEL SR-96 [TACT]


5126 ø3X8 (M)
5126 ø3X8 (M)
A
001D
C
B
5126 ø3X8 (M)
PY04 CONNECT PCB
5110 ø3X8 (A)
030G
02 VERSION
JB03
900G
W001
5128 ø3X8 (M)
PB04
LB01
007K
K VERSION
W001
J091
SP91
J001
PP91
910G
900G
P754 SPEAKER
5128 ø3X25 (B)
5148 ø3X15 (M)
5128 ø3X8 (M)
061K
QP01
LB01
JB03
PV04 DIRECT
P604 THX DSP
007K
PB04
5110 ø3X6 (M)
PE04 ELE.VOL.
PL54 S-VIDEO
5128 ø3X8 (M)
001K
002K
PL04 VIDEO SEL
003K
004K
012Gx6
PS54 V-AUDIO
PS04 AUDIO
K&N ONLY
A101
P104 TUNER
011K
005K
013G x3
5128 ø3X8 (M)
5148 ø3X10 (A)
5110 ø3X6 (M)
013L
009L
5128 ø3X8 (M)
005L
E
001L
017L
PP04
020L
P704
5148 ø3X10 (A)
5128 ø3X8 (M)
015L
5128 ø3X8 (M)
E
025B
023B
PW04
JW01
007B ASSY. (008B)
(009B)
001B
002B
02B N ONLY
013B
012B
020B
019B
040B
VU01
PU04
011B
010B
D
024B
PU54
029B
038B
022B
PL94
005B
015B
036B
035B
PF04 TONE AMP
027B
C
5128 ø3X8 (M)
E
009G
(003G)
006G
001G ASSY. (002G)
020G
021Gx2
023Gx4
020G
D
E
B
Z001
L001
5204 ø4X8 (A)

SYMBOL	STYLE	PARTS NAME
5128	⊗	+B.H.TAP TITE SCREW (B TYPE)
5126	⊗	+B.H.TAP TITE SCREW W/WASHER
5148	⊕	+B.H.M.SCREW (W/WASHER)
5150	⊗	+F.H.TAP TITE SCREW (B TYPE)
5110	⊗	+B.H.M.SCREW
5204	⊗	+H.H.TAPT.BOLTS WITH FLANGE (S TITE)

MARK	MATERIAL/FINISH
(M)	IRON/COPPER
(U)	IRON/BLACK
(A)	IRON/CHROMATE

EXPLODED VIEW FOR MODEL SR-96 [MOMS]



02 VERSION
K VERSION
5110
φ3X8 (A)
900G
W001
5128
φ3X8 (M)
JB03
PB04
LB01
007K
PY04
CONNECT PCB
030G
910G
900G
W001
SP91
PP91
J091
J001
5126
φ3X8 (M)
A
B
C
001D
5148
φ3X15 (M)
5128
φ3X25 (B)
P754
SPEAKER
061K
QP01
LB01
JB03
PV04
DIRECT
P604
THX
DSP
PE04
ELE.VOL.
PB04
007K
5110
φ3X6 (M)
PL54
S-VIDEO
PL04
VIDEO
SEL
PS54
V-AUDIO
PS04
AUDIO
A101
K&N
ONLY
P104
TUNER
011K
005L
E
PP04
020L
P704
001K
002K
PN54
003K
004K
012Gx6
001L
017L
015L
5148
φ3X10 (A)
005K
013G
x3
013L
009L
5150
φ3X8 (M)
050B
PU94
025B
023B
PW04
JW01
019B
020B
040B
012B
013B
VU01
011B
010B
PU04
007B ASSY.
(008B)
(009B)
051B
001B
002B
D
024B
PU54
029B
038B
022B
PL94
015B
005B
PF04
TONE AMP
027B
036B
035B
02B N ONLY
(003G)
009G
006G
5204
φ4X8 (A)
L001
001G ASSY
(002G)
020G
021Gx2
023Gx4
Z001

SYMBOL	STYLE	PARTS NAME
5128	⊕	+B.H.TAP TITE SCREW (B TYPE)
5126	⊕	+B.H.TAP TITE SCREW W/WASHER
5148	⊕	+B.H.M.SCREW (W/WASHER)
5204	⊕	+H.H.TAPT.BOLTS WITH FLANGE (S TITE)
5110	⊕	+B.H.M.SCREW
5150	⊕	+F.H.TAP TITE SCREW (B TYPE)

MARK	MATERIAL/FINISH
(M)	IRON/COPPER
(U)	IRON/BLACK
(A)	IRON/CHROMATE

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
001B	/02B	4822 459 04328	FRONT PANEL	261J248010
001B	KGL,KKGL		FRONT PANEL	261J248120
001B	U,KBL		FRONT PANEL	261J248020
002B	U,/02B,KBL	4822 459 11172	BADGE, MARANTZ	185J251010
002B	KGL,KKGL	4822 459 11173	BADGE, MARANTZ	185J251110
005B	U,/02B,KBL	4822 464 10202	CHASSIS, FRONT	261J105010
005B	KGL,KKGL		CHASSIS, FRONT	261J105110
007B	U,/02B,KBL	4822 450 10183	WINDOW ASSEMBLY	261J158510
007B	KGL,KKGL		WINDOW ASSEMBLY	261J158520
010B	U,/02B,KBL	4822 410 10709	BUTTON, FUNCTION	261J270010
010B	KGL,KKGL		BUTTON, FUNCTION	261J270110
011B	U,/02B,KBL	4822 410 10639	BUTTON, MEMO	261J270020
011B	KGL,KKGL		BUTTON, MEMO	261J270120
012B	U,/02B,KBL	4822 410 10641	BUTTON, OSD	261J270030
012B	KGL,KKGL		BUTTON, OSD	261J270130
013B	U,/02B,KBL	4822 410 10642	BUTTON, MODE	261J270040
013B	KGL,KKGL		BUTTON, MODE	261J270140
015B	U,/02B,KBL	4822 454 13137	ESCUTHCEON, VOL.	261J063010
015B	KGL,KKGL		ESCUTHCEON, VOL.	261J063110
019B		4822 256 92097	HOLDER, FL	183J271020
020B		4822 459 11158	STICKER, FL	056J122010
035B	U,/02B,KBL	4822 410 10643	KNOB, MAIN VOL.	261J154010
035B	KGL,KKGL		KNOB, MAIN VOL.	261J154110
036B	U,/02B,KBL	4822 410 10711	KNOB, TONE VOL.	261J154020
036B	KGL,KKGL		KNOB, TOMNE VOL.	261J154120
040B		4822 401 10935	CLAMPER, WIRE	4220005040
050B		4822 404 21012	JOINT,POWER BUTTON [MOMS]	025J125010
051B	U,/02B,KBL	4822 410 62744	BUTTON, POWER [MOMS]	285K270010
051B	KGL,KKGL	4822 462 72053	BUTTON, POWER [MOMS]	285K270110
005D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
006D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
012G		4822 256 90913	HOLDER	2218271020
020G		4822 462 42045	LEG, FRONT	183J057010
021G		4822 462 42048	LEG, REAR	183J057110
910G		4822 532 60948	BUSHING, MAINS CODE	450H259010
014K	/02B,KBL,KGL	4822 417 20168	BUSHING, SPK	306V259030
018L		4822 502 21337	F.WASHER SCREW M3 x 15	51480315M0
025L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
026L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
⚠L001	U		MAINS TRANSF.	TS60513010
⚠L001	/02B	4822 146 10636	MAINS TRANSF.	TS60513020
⚠L001	KBL,KGL		MAINS TRANSF.	TS60513030
⚠L001	KKGL		MAINS TRANSF.	TS60513040
L002		4822 529 10357	FERRITE CORE	FS50380010
⚠W001	U		MAINS CORD	YC01800780
⚠W001	KBL,KGL, KKGL		MAINS CORD	YC01800790
⚠W001	/02B	4822 321 10985	MAINS CORD	YC01800790
Y001 | Y005		4822 264 10110	SHORT PLUG	YQ01000080
001T	U		USER MANUAL	261J851250
001T	/02B	4822 736 14645	USER MANUAL	261J851310
001T	KBL,KGL, KKGL		USER MANUAL	261J851350
Z001	U		REMOTE COMMANDER	ZK206W0010
Z001		4822 219 10103	REMOTE COMMANDER	ZJ261J0010

6. SERVICE PROGRAM

1. Tracking point memory

This service program can be use for measurement of the tuner circuit.
When the POWER ON, press the **"PRESET UP"** button while pressing the **"MEMO"** button.
FLD shows **"TRACKING"**. Frequencies to be memorized are as follows.

	VERSION	**P1**	**P2**	**P3**	**P4**
FM	**02B,U,K,KK**	90.0	98.0	106.0	87.5
	JAPAN	78.0	83.0	88.0	76.0

	SCAN STEP	**P5**	**P6**	**P7**	**P8**	**P9**	**P10**	**P11**	**P12~ P30**
AM	**10 KHz**	600.0	1000.0	1400.0	520.0	←	←	←	←
	9 KHz	603.0	999.0	1404.0	531.0	←	←	←	←
	MW/LW	↑	↑	↑	171.0	207.0	270.0	152.0	531.0

2. FLD segment luminous

This service program can be luminous all segments by following step.
When the POWER ON, press the **"FM/AM(TUNER)"** button while pressing the **"MEMO"** button.
When finish the following procedure this service program should be stop.

Luminous procedure

1. All segments luminous 5 seconds.
2. At the grid "1G", segments luminous following procedure.

① KHz → ② MHz → ③ R → ④ PEAK → ⑤ L → ⑥ MULTI → ⑦ MONO → ⑧ MATRIX →
⑨ HALL → ⑩ P-SCAN → ⑪ TAPE → ⑫ COPY → ⑬ VCR1 → ⑭ SLEEP → ⑮ DISP → ⑯ TX

3. At the grid "2G" to "11G", each one segment luminous step by step.
4. At the grid "12G", segments luminous following procedure.

① VISUAL → ② SIGNAL LEVEL → ③ CH → ④ SIGNAL BAR (LEFT SIDE) →
⑤ SIGNAL BAR (2nd LEFT) → ⑥ SIGNAL BAR (CENTER) → ⑦ SIGNAL BAR (2nd RIGHT) →
⑧ SIGNAL BAR (RIGHT SIDE) → ⑨ STEREO → ⑩ THX CINEMA → ⑪ PRO.LOGIC →
⑫ MOVIE → ⑬ AUTO MEMO → ⑭ 3.LOGIC → ⑮ SIMUL'D → ⑯SURROUND

3. Selector check mode

This service program can be operate input selector and surround mode in automatically as following procedure. This service program continually repeat until power off.
When the POWER ON, press the **"SURROUND MODE+"** button while pressing the **"MEMO"** button.

STEP	INPUT SELECTOR	DSP MODE	FM MODE BAND	FREQUENCY	COPY SWITCH		NOTES
					TAPE	VCR1	
1	FM	STEREO	AUTO	98.0	SOURCE	SOURCE	
2	FM	STEREO	MONO	LAST	↑	↑	
3	CD	THX	AUTO	LAST	↑	↑	
4	TAPE	P-LOGIC	AUTO	LAST	TUNER	SOURCE	TUNER-ON
5	DCC	MOVIE	AUTO	LAST	SOURCE	TV	
6	TV	3 CH	AUTO	LAST	↑	SOURCE	
7	TV	HALL	AUTO	LAST	CD	LD	
8	LD	MATRIX	AUTO	LAST	TAPE2	TV	
9	VCR1	MONO	AM	1000	TUNER	VCR2	
10	VCR2	STEREO	AUTO	98.0	TUNER	SOURCE	TUNER-ON
11	AUX	THX	AUTO	LAST	SOURCE	AUX	

4. All clear

This service program can be clear all memorized operations and functions.
When the POWER ON, press the **"CLEAR"** button while pressing the **"MEMO"** button. FLD shows **"CLEAR MEMO"** and power will be OFF.

5. Volume reset

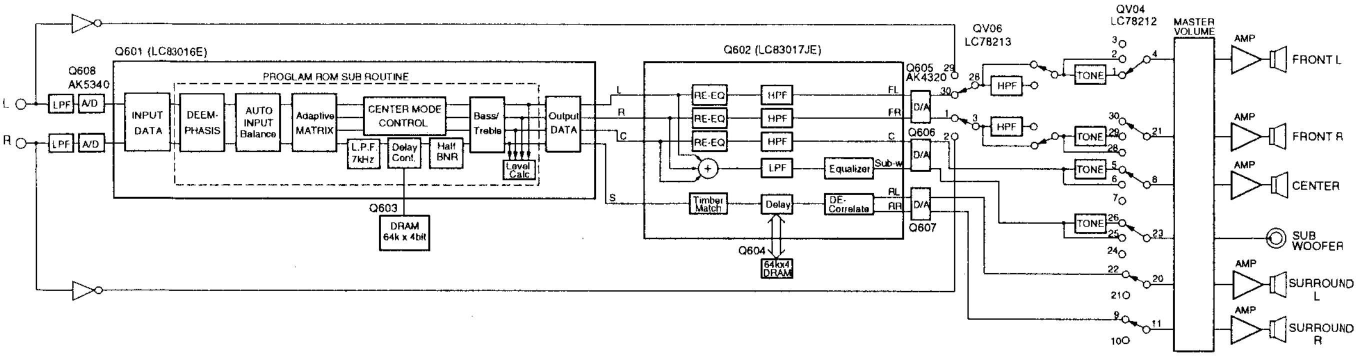
This service program can be reset "MASTER VOLUME LEVEL" and "CHANNEL OUTPUT LEVEL" to initial level. (MASTER VOLUME : -61dB, CHANNEL LEVEL : 0dB)
When the POWER ON, transmit the reset code **"163731"** continually more than 3 seconds by remote control unit(RC500AV or other multi remote controller). FLD shows **"VOL RST"**.

7. CIRCUIT DESCRIPTION

1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound. Fig. 1-1 is a block diagram of the surround processor circuit.

The microprocessor transfers the data to the parameter control (Serial data, Serial clock, Request Ready) to operate the circuits in each mode.


Q601 (LC83016E)
Q608
AK5340
L
R
LPF
A/D
PROGLAM ROM SUB ROUTINE
INPUT DATA
DEEM-PHASIS
AUTO INPUT Balance
Adaptive MATRIX
CENTER MODE CONTROL
L.P.F. 7kHz
Delay Cont.
Half BNR
Bass/ Treble
Level Calc.
Output DATA
Q603
DRAM 64k x 4bit
Q602 (LC83017JE)
L
R
C
S
RE-EQ
HPF
LPF
+
Equalizer
Sub-w
Timber Match
Delay
DE-Correlate
Q604
64kx4 DRAM
FL
FR
C
RL
RR
Q605 AK4320
D/A
Q606
Q607
QV06
LC78213
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2
HPF
QV04
LC78212
TONE
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24
23
22
21
20
9
10
11
MASTER VOLUME
AMP
FRONT L
FRONT R
CENTER
SUB WOOFER
SURROUND L
SURROUND R

(Block diagram of the surround processor circuit.)
Fig. 1-1

1) Stereo

Set to this mode to listen to ordinary stereo sound. The rear L/R and center outputs will be muted.

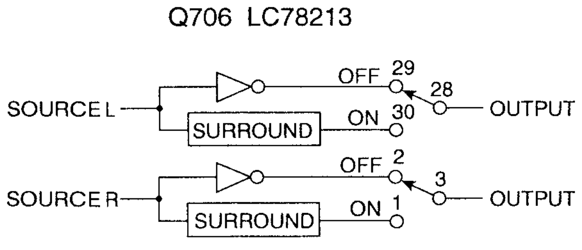

Q706 LC78213
SOURCE L
SOURCE R
SURROUND
OFF
ON
29
28
30
2
3
1
OUTPUT

Fig. 1-2

(2) THX Cinema

The IC Q602 (LC83017E) is a THX Cinema decoder IC. IC Q602 (LC83017E) divides the 4 channel signals (Left, Right, Center and Surround) sourcing from IC Q601 (LC83016E) into 6 channel signals (Left, Right, Center, Surround Left, Surround Right and Sub Woffer).

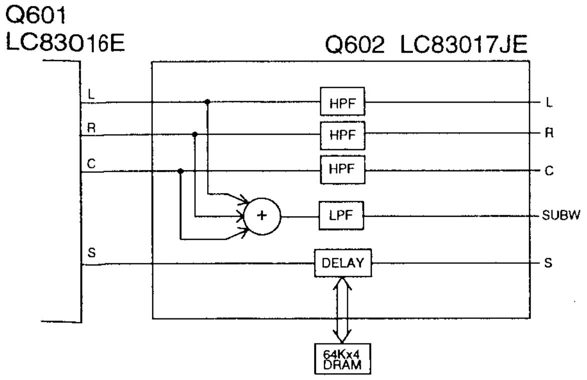

Q601
LC83016E
Q602 LC83017JE
L
R
C
S
HPF
LPF
+
DELAY
64Kx4 DRAM
L
R
C
SUBW
S

Fig. 1-3

(3) Dolby pro logic

Q601 (LC8316E) is a Dolby pro logic decoder IC. When an audio signal recorded using the Dolby pro logic system is sent to this IC, the left, right, center and surround components are separated. The surround signal component is delayed by the digital delay circuit by 15-30 mS and is sent to the modified B-type decoder Q601 where noise reduction processing is performed.

(4) Movie, 3CH Logic Hall, Matrix

The Movie mode provides the feeling of presence you get from a 35-mm movie in a movie theater.

3CH Logic mode is used to improve the sound field center by applying directivity enhancement provided by the Dolby Pro Logic Surround decoder.

Hall mode provide a sound-field effect of medium-sized circular hall with rich reverberations.

Matrix mode is effective for playing sports broadcasts or outdoor live concerts. It provides a surround mode with a wide surround effect.

All the connections of the circuits are the same in these modes. Q601, controlled by the microprocessor, processes the audio signals to produce various sound effects and creates surround components to use them as signals to drive the surround channel.

2. CENTER MODE

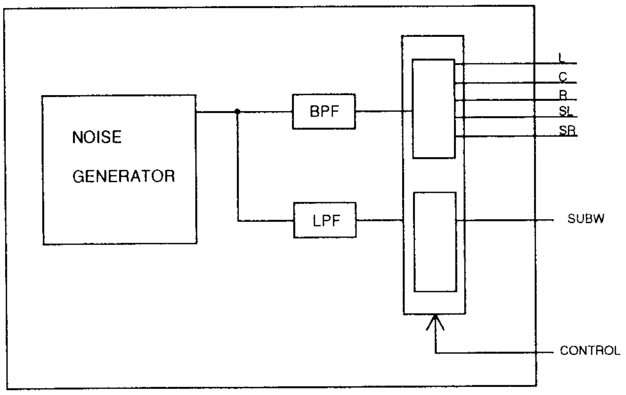
With Dolby pro logic, three center modes depend on the use of a center speaker as follows.

NORMAL	: Bass frequencies are sent only to the Left and Right Front channels. Select this mode when the Center Speaker is smaller than the Left and Right speakers.
WIDE	: Bass frequencies are sent to the Left, Center and Right speakers. Select this mode when the Center speaker is approximately the same size as the Left and Right speakers.
PHANTOM	: Center channel information is sent to the Left and Right speakers. Select this mode when you do not have a center channel speaker.

3. TEST TONE GENERATOR

The test tone generator generates a test tone (noise) to check the balance of sound output from each speaker in the THX CINEMA MODE, (This circuit is produced under license of Lucasfilm Ltd.) and the Dolby pro logic mode. (This circuit is produced under license of the Dolby Laboratories Licensing Corp.)

Q602 LC83017JE



(Flow of noise signals within the system.)
Fig. 3

8. ELECTRICAL ADJUSTMENT

1. Main amp idling current adjustment

1) With the power OFF, set semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) on the PC board (PV04) to the center position.
2) Connect a digital voltmeter, set for the DC range, between the emitter resister [R759 (Lch), R760 (Rch), R794 (Center ch)] on the PC board (PV04).
3) After the above, adjust the idling current as follows:
   Turn the power ON and adjust semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) while observing the digaital multimeter indication.
   * The target value is 7.2 mV (20 mA).

[Reference]

When a set whose idling current has been adjusted is switched on with after 1 minute it reaches about 2.7 – 3.5 mV. After 10 minutes, it reaches a balanced state and stabilizes at 7.2 mV (target). Therefore, it the adjustment is made 30 second after the power is switched on, adjust to 1.3 – 1.8 mV. In the same way, if 1 minute have passed since the power was swithced on, adjust to 2.7 – 3.5 mV. From 1 to 2 minutes, adjust to 3.9 – 4.2 mV. From 2 to 4 minutes, adjust to 4.8 – 6.4 mV. From 4 to 7 minutes, adjust to 5.7 – 7.3 mV. After more than 7 minutes since the power was switched on, adjust to the setting of 5.8 – 7.4 mV.
Here is a reference table for the adjustment values.

Time since power switched on	Idling current adjustment
30 second	1.3 – 1.8 mV
1 minute	2.7 – 3.5 mV
1 – 2 minutes	3.9 – 4.2 mV
2 – 4 minutes	4.8 – 6.4 mV
4 – 7 minutes	5.7 – 7.3 mV
More than 7 minutes	5.8 – 7.4 mV

2. Main amp DC offset adjustment

1) With the power OFF, connect a digital voltmeter, set for the DC range, to the speaker terminal.
2) After the above, adjust the idling current as follows:
   Turn the power ON and adjust RN63 (Lch), RN64 (Rch), RN70 (Center ch) so that the output is ±20 mV.

ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz (/02B,K,KK) 1000 KHz (USA)	Level 300 µV/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) **Maximum** at TAPE-OUT

REMARK: For receiving antenna, the adapted one is available.

This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier.

It is necessary when the incorrect usable sense and frequency response.

2. AM Tracking Adjustment (MW)

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 KHz (/02B,K,KK) 600 KHz (USA)	Level 300 - 400 µV/m Mod. 400 Hz 30%	603 KHz (/02B,K,KK) 600 KHz (USA)	LA01	Output level (L or R) Maximum at TAPE-OUT
2		1404 KHz (/02B,K,KK) 1400 KHz (USA)	Level 300 - 400 µV/m Mod. 400 Hz 30%	1404 KHz (/02B,K,KK) 1400 KHz (USA)	CA01	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM Tracking Adjustment (LW)

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 KHz	Level 300 - 400 µV/m Mod. 400 Hz 30%	171 KHz	LA03	Output level (L or R) **Maximum** at TAPE-OUT
2		270 KHz	Level 300 - 400 µV/m Mod. 400 Hz 30%	270 KHz	CA08	Output level (L or R) **Maximum** at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

4. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz (/02B,K,KK) 1000 KHz (USA)	500 µV/m (54 dB/m)	999 KHz (/02B,K,KK) 1000 KHz (USA)	RA11	**"TUNED"** indicate on FLD
2			1000 µV/m (60 dB/m)	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

REMARK: This adjustment is related to the FM muting Level Adjustment. The FM muting Level re-adjustment is necessary after this adjustment.

5. FM MONO. Distortion Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 µV (54 dB) MONO 1 KHz / Dev.40KHz 53.3% (/02B,K) MONO 1KHz / Dev.75KHz 100%(USA,KK)	98 MHz (P2)	L201	Distortion level **Minimum** at TAPE-OUT

6. FM Muting Level Adjustment

Turn the variable resistor **R212** to no indication ("TUNED") point. And return that valuable resistor in opposite to the **"TUNED"** indicate point.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	6.3 μV (16 dB) MONO 1 KHz / Dev.40KHz 53.3% (/02B,K) MONO 1KHz / Dev.75KHz 100%(USA,KK)	98 MHz (P2)	R212	**"TUNED"** indicate on FLD
2			Over mentioned level **+3 dB**	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

REMARK: This adjustment is related to the AM auto stop Adjustment. This adjustment is necessary after AM auto stop adjustment.

7. FM STEREO Distortion Adjustment

Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 μV (54 dB) L or R 1KHz / Dev. 40KHz 53.3% PILOT 19KHz / Dev. 6KHz 8% (/02B,K)	98 MHz (P2)	IF COIL in FRONT END	Distortion level **Minimum** at TAPE-OUT
2			L or R 1KHz / Dev. 67.5KHz 90% PILOT 19KHz / Dev. 6.75KHz 9%(USA,KK)		R218	Distortion level **Minimum** at TAPE-OUT

REMARK: Adjustment with **R128** is not necessary when the distortion level is less than 1.0% with adjusting IF coil.

8. FM STEREO Separation Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	same specification as **FM STEREO distortion adjustment**. Input only **L** channel.	98 MHz (P2)	R211	Output level **Minimum** at TAPE-OUT channel **R**
2		98 MHz	same specification as **FM STEREO distortion adjustment**. Input only **R** channel.	98 MHz (P2)	R211	Output level **Similar** as Rch at TAPE-OUT channel **L**

9. On Screen Display VCO Adjustment

Step	Input Signal Source and Connection	Measuring position	Measuring equipment	input selector	Adjustment Point	Adjustment Value
1	Color bar or other standard video signal. Video signal generator output to LD video input.	IC QX60 26pin and GND.	DC voltmeter (Impedance > 10k ohm/V)	LD	CX67	2.5V +-0.1V

REMARK: Connect the TV monitor to the monitor output terminal of the product.

9. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR
R*** : 1) GD05 x x x 140, Carbon film fixed resistor, ±5% 1/4W
R*** : 2) GD05 x x x 160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value

0.1Ω...001	10Ω...100	1kΩ...102	100kΩ...104
0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
1Ω...010	100Ω...101	10kΩ...103	1MΩ...105
6.8Ω...068	390Ω...391	22kΩ...223	4.7MΩ...475

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

C*** : CERAMIC CAP.
1) DD1x x x x 370, Ceramic capacitor
Disc type
Temp.coeff.P350~N1000,50V
① ②
② —— Capacity value
① —— Tolerance

Examples
①Tolerance (Capacity deviation)
±0.25pF ... 0
±0.5pF ... 1
±5% ... 5

*Tolerance of COMMON PARTS handled here are as follows :
0.5pF~ 5pF...±0.25pF
6pF~ 10pF...±0.5pF
12pF~ 560pF...±5%

②Capacity value

0.5pF...005	3pF...030	100pF...101
1pF...010	10pF...100	220pF...221
1.5pF...015	47pF...470	560pF...561

C*** : CERAMIC CAP.
1) DK16 x x x 300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
①
① —— Capacity value

Examples
①Capacity value

100pF...101	1000pF...102	10000pF...103
470pF...471	2200pF...222	

C*** : ELECTROLY CAP.( ), FILM CAP.( )
1) EA x x x x x x 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
① ②
② —— Working voltage
① —— Capacity value

Examples
①Capacity value

0.1μF...104	4.7μF...475	100μF...107
0.33μF...334	10μF...106	330μF...337
1μF...105	22μF...226	1100μF...118
		2200μF...228

②Working voltage

6.3V...006	25V...025
10V...010	35V...035
16V...016	50V...050

2) DF15 x x x 350 ⟶ Plastic film capacitor
DF15 x x x 310 One-way type, Mylar ±5% 50V
DF16 x x x 310 ⟶ Plastic film capacitor
One-way type, Mylar ±10% 50V
①
① —— Capacity value

Examples
①Capacity value

0.001μF(1000pF)...102	0.1μF...104
0.0018μF............182	0.56μF...564
0.01μF............103	1μF...105
0.015μF............153	

NOTE : 1) The above CODES (R***,R***,C***,C*** and (C***) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to "Common Parts List" for the other common parts(**RI05, DD4, DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows ;

1. KOA Corporation

Part No.	Type No.	Description
NH05 x x x 140 ⟶	RF25S x x x x ΩJ	(±5% 1/4W)
NH05 x x x 120 ⟶	RF50S x x x x ΩJ	(±5% 1/2W)
NH85 x x x 110 ⟶	RF73B2A x x x x ΩJ	(±5% 1/10W)
NH95 x x x 140 ⟶	RF73B2E x x x x ΩJ	(±5% 1/4W)

└ * Resistance value └ Resistance value (0.1-10kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No.	Type No.	Description
NF05 x x x 140 RF05 x x x 140 ⟶	ERD-2FCJ x x x	(±5% 1/4W)
NF02 x x x 140 RF02 x x x 140 ⟶	ERD-2FCG x x x	(±2% 1/4W)

└ * Resistance value └ * Resistance value

Examples :
* Resistance value

0.1Ω...001	10Ω...100	1kΩ...102	100kΩ...104
0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
1Ω...010	100Ω...101	10kΩ...103	1MΩ...105
6.8Ω...068	390Ω...391	22kΩ...223	4.7MΩ...475

ABBREVIATION AND MARKS

1	ANT.	:	ANTENNA	2	BATT.	:	BATTERY
3	CAP.	:	CAPACITOR	4	CER.	:	CERAMIC
5	CONN.	:	CONNECTING	6	DIG.	:	DIGITAL
7	HP	:	HEADPHONE	8	MIC.	:	MICROPHONE
9	μ-PRO	:	MICROPROCESSOR	10	REC.	:	RECORDING
11	RES.	:	RESISTOR	12	SPK	:	SPEAKER
13	SW	:	SWITCH	14	TRANSF.	:	TRANSFORMER
15	TRIM.	:	TRIMMING	16	TRS.	:	TRANSISTOR
17	VAR.	:	VARIABLE	18	X'TAL	:	CRYSTAL
19				20			
21				22			
23				24			
25				26			
27				28			
29				30			

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

SM950509KI

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PB04-BACK-UP CIRCUIT BOARD	
			PB04-CAPACITORS	
CB02		4822 124 41134	ELECT 10µF 63V	EA10606310
CB07		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CB08		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
▲CB09		4822 122 33276	CER. 0.01µF ±20%	DK17103840
CB10		4822 122 41134	ELECT 10µF 63V	EA10606310
			PB04-CAPACITORS (COMMON)	
C***			ELECTROLYTIC CAPACITORS, ±20% : CB01, CB03, CB04, CB06	
			PB04-RESISTORS	
▲RB01		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲RB03		4822 053 10471	470Ω ±5% 1W	GA05471010
▲RB07	U		2.2MΩ ±10% 1/2W	RC10225820
			PB04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RB04, RB05, RB08	
			PB04-SEMICONDUCTORS	
▲DB01 | ▲DB04		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
DB05		4822 130 81729	ZENER MTZJ33D	HD33301000
DB06		4822 130 80273	ZENER NTJ8.2C	HD30821000
▲DB07		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲DB08		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲QB01		4822 209 31927	IC PQ05RR1	HC38905320
QB02		4822 130 62335	TRS. 2SD2033 (E)	HT420331E0
			PB04-MISCELLANEOUS	
▲FB01	KKBL/02B	4822 253 30387	FUSE 4A 250V	FS10400850
▲FB01	U		FUSE 8A 125V	FS10800540
▲FB02	/02B	4822 252 11189	FUSE T2.5A 250V	FS20250200
▲FB03	/02B	4822 252 11189	FUSE T2.5A 250V	FS20250200
▲JB03	U		JACK, AC OUTLET 2P	YJ04002040
▲JB03	/02B	4822 267 31952	JACK, AC OUTLET 2P	YJ04002080
▲LB01	U		POWER TRANSF.	TS14823230
▲LB01	/02B	4822 146 10582	POWER TRANSF.	TS14823240
▲LB01	KBL,KGL		POWER TRANSF.	TS14823250
▲LB01	KKBL		POWER TRANSF.	TS14823260
▲LB02		4822 280 80773	RELAY, VS24MB-NR	LY10240240
			PE04-ELE.VOL CIRCUIT BOARD	
			PE04-CAPACITORS	
CE01		4822 124 90352	ELECT 10µF 16V	OA10601620
CE02		4822 124 90352	ELECT 10µF 16V	OA10601620
CE03 | CE06		4822 124 21894	ELECT 10µF 16V	EJ10601610
CE07		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE08		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE09 | CE12		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE13		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE14		4822 124 22274	ELECT 4.7µF 50V	OA47505020

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CE15 | CE18		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE19		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE20		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE21 | CE24		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE25		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE26		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE27 | CE30		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE31		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE32		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE33		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE34		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE35		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE36		4822 124 21894	ELECT 10µF 16V	EJ10601610
CE41		4822 124 90352	ELECT 10µF 16V	OA10601620
CE42		4822 124 90352	ELECT 10µF 16V	OA10601620
CE43 | CE46		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV69 | CV73		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV74		4822 124 23055	ELECT 22µF 16V	EJ22601610
			PE04-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : CV63~CV67,(CV75~CV85[/02B])	
C***			PLASTIC FILM CAPACITOR, ±5% 50V : CV51~CV55, CV57~CV62	
			PE04-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RE01~RE66, RE73~RE82, RV51~RV55, RV57~RV88	
			PE04-SEMICONDUCTORS	
QE01		4822 209 83631	IC NJM4558DD	HC10008090
QE02		4822 209 83631	IC NJM4558DD	HC10008090
QE03		4822 209 83631	IC NJM4558DD	HC10008090
QE04		4822 209 31575	IC TC9213P	HC10304050
QE05		4822 209 31575	IC TC9213P	HC10304050
QE06		4822 209 31575	IC TC9213P	HC10304050
QE07 | QE12		4822 209 83631	IC NJM4558DD	HC10008090
QV51 | QV56		4822 130 43818	TRS. 2SC2878 (A, B)	HT328782A0
QV57		4822 209 83631	IC NJM4558DD	HC10008090
QV58		4822 209 83631	IC NJM4558DD	HC10008090
QV59		4822 209 83631	IC NJM4558DD	HC10008090
QV60		4822 130 43818	TRS. 2SC2878 (A, B)	HT328782A0

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PE04-MISCELLANEOUS	
JV52	/02B		TERMINAL, 6P RCA PIN JACK	YT02060550
JV52	U,KBL, KGL,KKGL		TERMINAL, 6P RCA PIN JACK	YT02060510
JV53	/02B	4822 265 10731	TERMINAL, 1P RCA PIN JACK	YT02041170
JV53	U,KBL, KGL,KKGL		TERMINAL, 4P RCA PIN JACK	YT02041120
JV54	/02B		TERMINAL, 1P RCA PIN JACK	YT02011030
JV54	U,KBL, KGL,KKGL	4822 290 81638	TERMINAL, 1P RCA PIN JACK	YT02010790
LV01	/02B	4822 157 70813	CHOKE COIL 47µH	LC14733800
LV02	/02B	4822 157 70813	CHOKE COIL 47µH	LC14733800
LV03	/02B	4822 157 70813	CHOKE COIL 47µH	LC14733800
			PF04-TONE CIRCUIT BOARD	
			PF04-CAPACITORS	
CF01		4822 124 90352	ELECT 10µF 16V	OA10601620
CF02		4822 124 90352	ELECT 10µF 16V	OA10601620
CF03		4822 124 90352	ELECT 10µF 16V	OA10601620
CF04		4822 124 41539	ELECT 47µF 16V	OA47601620
CF09		4822 122 32265	CER. 100PF ±5%	DD15101300
CF10		4822 122 32265	CER. 100PF ±5%	DD15101300
CF11		4822 122 32265	CER. 100PF ±5%	DD15101300
CF21		4822 124 41539	ELECT 47µF 16V	OA47601620
CF22		4822 124 41539	ELECT 47µF 16V	OA47601620
CF23		4822 124 41539	ELECT 47µF 16V	OA47601620
CF25		4822 124 23055	ELECT 22µF 16V	EJ22601610
CF26		4822 124 23055	ELECT 22µF 16V	EJ22601610
CF27		4822 124 23055	ELECT 22µF 16V	EJ22601610
CF28		4822 124 90358	ELECT 22µF 16V	OA22601620
CF29 | CF32	U,KBL, KGL, KKBL	4822 122 31205	CER. 47PF ±5%	DD15470300
CF40		4822 124 90354	ELECT 100µF 16V	OA10701620
CF41		4822 124 90354	ELECT 100µF 16V	OA10701620
CF43 | CF48		4822 122 40588	CER. 0.022µF ±20%	DA17223110
			PF04-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 1/6W : CF09, CF10, CF11	
C***			PLASTIC FILM CAPACITOR, ±5% 50V : CF13~CF20,(CF29~CF31[/02B])	
			PF04-RESISTORS	
RF41		4822 117 12511	100K Ω (B) x 4 VAR.	RG01040140
RF42		4822 117 12511	100K Ω (B) x 4 VAR.	RG01040140
RF43		4822 100 12007	100K Ω (W) VAR.	RK01040620
			PF04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RF01~RF11, RF13,RF14,RF15, RF17~RF24,RF29~RF32,RF45, RF46, RF81~RF84	
			PF04-SEMICONDUCTORS	
QF01		4822 209 70044	IC NJM2058D	HC10031090
QF02		4822 209 83631	IC NJM4558DD	HC10008090
QF03		4822 209 83631	IC NJM4558DD	HC10008090

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PL04-VIDEO SELECTOR CIRCUIT BOARD	
			PL04-CAPACITORS	
CL01		4822 124 23055	ELECT 22µF 10V	EJ22601010
CL02		4822 124 21894	ELECT 10µF 16V	EJ10601610
CL03		4822 124 23055	ELECT 22µF 10V	EJ22601010
CL04		4822 124 21894	ELECT 10µF 16V	EJ10601610
CL05		4822 124 23055	ELECT 22µF 10V	EJ2260101
CL06		4822 124 21894	ELECT 10µF 16V	EJ10601610
CL09		4822 124 23055	ELECT 22µF 10V	EJ22601010
CL10		4822 124 21894	ELECT 10µF 16V	EJ10601610
CL14		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CL15		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CL16		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CL17		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CL20		4822 124 23055	ELECT 22µF 10V	EJ22601010
CL22		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CL23		4822 124 23055	ELECT 22µF 10V	EJ22601010
CL31		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CX49		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CX52		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CX54		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CX55		4822 122 32143	CER. 22PF ±5%	DD15220300
CX56		4822 122 32143	CER. 22PF ±5%	DD15220300
CX57	/02B,KBL,KGL	4822 122 32143	CER. 22PF ±5%	DD15220300
CX58	/02B,KBL,KGL	4822 122 32143	CER. 22PF ±5%	DD15220300
CX59		4822 124 23054	ELECT 0.47µF 50V	EJ47405010
CX60		4822 122 32027	CER. 56PF ±5%	DD15560300
CX61		4822 122 23053	ELECT 1µF 50V	EJ10505010
CX63		4822 122 23053	ELECT 1µF 50V	EJ10505010
CX66		4822 122 31205	CER. 47PF ±5%	DD15470300
CX67		4822 125 50384	TRIM. 20PF	CT12000200
CX70		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CX72		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CX74		4822 124 23053	ELECT 1µF 50V	EJ10505010
CX75		4822 124 23055	ELECT 22µF 10V	EJ22601010
			PL04-CAPACITORS (COMMON)	
C***			ELECTROLYTIC CAPACITOR, ±20% : CL18, CL19, CL21, CX50,CX51, CX53, CX69, CX73, CX76	
C***			PLASTIC FILM CAPACTOR, ±5% 50V : CX64, CX65	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : CX62	
			PL04-RESISTORS	
RL07		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
RL11		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
RL12		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
			PL04-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL01~RL06, RL09, RL10,RL17, RL18, RL19, RX51, RX52,RX53, (RX54[/02B, KBL, KGL]) RX55, RX56, RX57, RX59~RX62, RX65~RX69	

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PL04-SEMICONDUCTORS	
DL01 | DL10		4822 130 32362	DIODE 1SS176	HD20002000
DX61		4822 130 32362	DIODE 1SS176	HD20002000
QL01		4822 209 31538	IC LC7824	HC10275030
QL02		4822 209 31538	IC LC7824	HC10275030
QL03		4822 209 32513	IC MC14576	HC10046170
QL04		4822 209 63455	IC NJM2233BD	HC12233090
QX60		4822 209 12668	IC LC74760-9004	HC10328030
QX61		4822 130 42298	TRS. 2SC536SP	HT30001000
QX62		4822 130 42594	DIG. DTC144ES	BA20002000
QX63		4822 209 14611	IC NJM2267D	HC10141090
QX64		4822 130 42298	TRS. 2SC536SP	HT30001000
			PL04-MISCELLANEOUS	
JL01		4822 265 10728	TERMINAL, 4P RCA PIN JACK	YT02041140
JL02		4822 265 31299	TERMINAL, 3P RCA PIN JACK	YT02030340
LX51		4822 157 62909	CHOKE COIL, 22μH	LC12233800
LX52		4822 157 63312	CHOKE COIL, 5.6μH	LC15623800
LX53		4822 242 73843	EMI FILTER	FM12223010
XX51		4822 242 80288	CRYSTAL, 14.31818MHz	JX14001260
XX52	/02B,KBL,KGL	4822 242 73903	CRYSTAL, 17.7MHz	JX17001260
			PL54-S-VIDEO CIRCUIT BOARD	
			PL54-CAPACITORS	
CL51 | CL64		4822 124 21894	ELECT 10μF 16V	EJ10601610
CL65 | CL70		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
CL72		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
CL73		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
CL76		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
CL77		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
CL79		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
			PL54-RESISTORS	
RL63 | RL68		4822 111 41355	75Ω ±5% 1/6W	GD05750160
R***			**PL54-RESISTORS (COMMON)** CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL51~RL62, RL69~RL74	
			PL54-SEMICONDUCTORS	
QL51 | QL54		4822 209 31538	IC LC7824	HC10275030
QL55		4822 209 32513	IC MC14576	HC10046170
QL56		4822 209 32513	IC MC14576	HC10046170
QL57		4822 209 32513	IC MC14576	HC10046170
			PL54-MISCELLANEOUS	
JL51		4822 265 20725	TERMINAL, 2P	YT02021320
JL52		4822 265 20725	TERMINAL, 2P	YT02021320
JL53		4822 265 31302	TERMINAL, 3P	YT02030350

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PL94-AUX IN CIRCUIT BOARD	
			PL94-CAPACITORS	
CL91		4822 124 21894	ELECT 10μF 16V	EJ10601610
CL92		4822 124 23055	ELECT 22μF 16V	EJ22601610
CL93		4822 124 21894	ELECT 10μF 16V	EJ10601610
CL94		4822 124 21894	ELECT 10μF 16V	EJ10601610
C***			**PL94-CAPACITORS (COMMON)** HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : (CL97, CL98[/02B])	
			PL94-RESISTORS	
RL92		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL93		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL94		4822 111 41355	75Ω ±5% 1/6W	GD05750160
R***			**PL94-RESISTORS (COMMON)** CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL91, RL95, RL96	
			PP04-SURROUND AMP CIRCUIT BOARD	
			PP04-CAPACITORS	
CP03		4822 124 80542	ELECT 10μF 63V	EQ10606390
CP04		4822 124 80542	ELECT 10μF 63V	EQ10606390
CP07		4822 122 31188	CER. 3P ±0.25PF	DD10030300
CP07	/02B	4822 122 32185	CER. 10P ±0.5PF	DD11100300
CP08		4822 122 31188	CER. 3P ±0.25PF	DD10030300
CP08		4822 122 32185	CER. 10P ±0.5PF	DD11100300
CP09 | CP12		4822 124 21895	ELECT 0.22μF 50V	EJ22405010
CP13		4822 124 23626	ELECT 100μF 63V	EA10706310
CP14		4822 124 41134	ELECT 10μF 63V	EA10606310
CP15		4822 124 23626	ELECT 100μF 63V	EA10706310
CP16		4822 124 41134	ELECT 10μF 63V	EA10606310
CP17		4822 124 23055	ELECT 22μF 10V	EJ22601010
CP21	/02B	4822 122 31205	CER. 47PF ±5%	DD15470300
CP22	/02B	4822 122 31205	CER. 47PF ±5%	DD15470300
C***			**PP04-CAPACITORS (COMMON)** HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : CP01, CP02	
C***			ELECTROLYTIC CAPACTOR, ±20% : CP05, CP06	
			PP04-RESISTORS	
▲ RR09		4822 116 82231	51KΩ ±5% 1/6W	GG05513160
▲ RR10		4822 116 82231	51KΩ ±5% 1/6W	GG05513160
▲ RR11		4822 113 80363	0.22Ω ±10% 3W	GO10222030
▲ RR12		4822 113 80363	0.22Ω ±10% 3W	GO10222030

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
▲RR13		4822 052 10102	1KΩ ±5% 1/6W	GG05102160
▲RR14		4822 052 10102	1KΩ ±5% 1/6W	GG05102160
▲RR21		4822 053 10109	10Ω ±5% 1W	GA05100010
▲RR22		4822 053 10109	10Ω ±5% 1W	GA05100010
▲RR25		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲RR26		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲RR99		4822 052 10109	10Ω ±5% 1/4W	GG05100140
			PP04-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RP01~RP08,RP15~RP20,RP23, RP24, RP27, RP28, RP29	
			PP04-SEMICONDUCTORS	
DP01		4822 130 80837	DIODE HSS81TD	HD20027010
DP02		4822 130 80837	DIODE HSS81TD	HD20027010
▲QP01		4822 209 14867	IC STK401-140	HC10357030
QP02		4822 130 43233	TRS. 2SC2240 (GR, BL)	HT322402A0
QP03		4822 130 43233	TRS. 2SC2240 (GR, BL)	HT322402A0
QP04		4822 130 42949	TRS. 2SA970 (GR, BL)	HT109702A0
			PP04-SEMICONDUCTORS	
LP01		4822 157 70022	AIR, SPK CHOCK COIL	ML08010030
LP02		4822 157 70022	AIR, SPK CHOCK COIL	ML08010030
			PS04-AUDIO FUNCTION CIRCUIT BOARD	
			PS04-CAPACITORS	
CS01 │ CS06		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS07		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS08		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS11		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS12		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS15		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS16		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS17		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS18		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS19		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS21		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS22		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
			PS04-CAPACITORS (COMMON)	
C***			ELECTROLYTIC CAPACTOR, ±20% : CS09, CS10, CS13, CS14	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, CS23~CS38	
			PS04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RS01~RS34, RS37~RS40	
			PS04-SEMICONDUCTORS	
QS01		4822 209 83631	IC NJM4558DD	HC10008090
QS02		4822 209 83631	IC NJM4558DD	HC10008090
QS03		4822 209 83631	IC NJM4558DD	HC10008090
QS05		4822 209 83631	IC NJM4558DD	HC10008090
QS07		4822 130 61892	TRS. 2SD2144S (U, V)	HT421442A0

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
QS08		4822 130 61892	TRS. 2SD2144S (U, V)	HT421442A0
QS09		4822 130 60588	DIG. DTC114ES	BA20001000
QS10		4822 130 61227	DIG. DTA114ES	BA10001000
QS11		4822 209 32552	IC LC78211	HC10308030
QS12		4822 209 32554	IC LC78213	HC10310030
QS13		4822 209 83631	IC NJM4558DD	HC10008090
			PS04-MISCELLANEOUS	
JS01		4822 290 61244	TERMINAL, 6P RCA PIN JACK	YT02060490
JS02		4822 290 81723	TERMINAL, 4P RCA PIN JACK	YT02041070
			PS54-V-AUDIO FUNCTION CIRCUIT BOARD	
			PS54-CAPACITORS	
CG51		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CG52		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CG55 │ CG60		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CG63		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CG64		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS51 │ CS58		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS59		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS60		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CS61		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS68		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS69		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS70		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CS93		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS94		4822 124 21894	ELECT 10µF 16V	EJ10601610
			PS54-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 1/6W : (CG61, CG62 [/02B]) CS71~CS90	
C***			ELECTROLYTIC CAPACTOR ±20% : CS62, CS63, CS65, CS66	
			PS54-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RG51~RG72, RS51~RS86, RS93, RS94	
			PS54-SEMICONDUCTORS	
QG51		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QG52		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QG55		4822 209 83631	IC NJM4558DD	HC10008090
QG56		4822 209 83631	IC NJM4558DD	HC10008090
QG57		4822 209 31575	IC TC9213P	HC10304050
QG59		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QG60		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QS51 │ QS55		4822 209 83631	IC NJM4558DD	HC10008090
QS56		4822 209 32552	IC LC78211	HC10308030
QS57		4822 209 32553	IC LC78212	HC10309030
QS59		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QS60		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
QS61		4822 130 61227	DIG. DTA114ES	BA10001000
QS62		4822 130 60558	DIG. DTC114ES	BA20001000
			PS54-MISCELLANEOUS	
JS51		4822 290 61244	TERMINAL, 6P RCA PIN JACK	YT02060490
JS52		4822 265 10729	TERMINAL, 8P RCA PIN JACK	YT02080130
			PU04-FRONT CIRCUIT BOARD	
			PS54-CAPACITORS	
CU01		4822 122 40588	CER. 0.022µF ±20%	DA17223110
CU02		4822 124 23056	ELECT 47µF 10V	EJ47601010
CU03		4822 124 80087	ELECT 220µF 6.3V	EJ22700610
CU04		4822 122 40588	CER. 0.022µF ±20%	DA17223110
CU05		4822 126 11558	CER. 0.1µF ±20%	DA17104110
CU07		4822 124 90406	BIG ELECT 0.22F 5.5V	EX22300530
CU10		4822 122 40588	CER. 0.022µF ±20%	DA17223110
CU13		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CU14	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CU15	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
			PU04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RU01~RU09, RU11, RU14~RU20, RU22~RU27, RU29, RU30, RU40~RU46	
			PU04-SEMICONDUCTORS	
DU01				
I		4822 130 80589	DIODE 1SS132	HD20029210
DU04				
DU05				
I		4822 130 32362	DIODE 1SS176	HD20002000
DU10				
DU13		4822 130 80589	DIODE 1SS132	HD20029210
DU15		4822 130 80589	DIODE 1SS132	HD20029210
DU17	/02B	4822 130 80589	DIODE 1SS132	HD20029210
DU19		4822 130 32362	DIODE 1SS176	HD20002000
DU20		4822 130 32362	DIODE 1SS176	HD20002000
DU21		4822 130 32362	DIODE 1SS176	HD20002000
DU22		4822 130 80326	L.E.D. LT3D8B (RED)	HI10062320
DU23				
I		4822 130 32362	DIODE 1SS176	HD20002000
DU28				
DU48		4822 130 32362	DIODE 1SS176	HD20002000
DU49		4822 130 32362	DIODE 1SS176	HD20002000
DU50		4822 130 32362	DIODE 1SS176	HD20002000
QU01		4822 209 14868	µ-PRO TMP87CP71F	HU260JT13F
QU02		4822 130 61227	DIG. DTA114ES	BA10007210
QU03		4822 130 42298	TRS. 2SC536SP	HT30001000
QU04		4822 130 42594	DIG. DTC144ES	BA20012210
QU07		4822 130 60588	DIG. DTC114ES	BA20010210
QU08		4822 130 42594	DIG. DTC144ES	BA20012210
QU09		4822 130 42594	DIG. DTC144ES	BA20012210
QU10		4822 130 42682	DIG. DTA144ES	BA10010210
QU11		4822 130 63211	DIG. DTA114ES	BA10003210
QU12		4822 130 61227	DIG. DTA114ES	BA10007210
QU14		4822 130 42682	DIG. DTA144ES	BA10010210
QU15		4822 130 42594	DIG. DTC144ES	BA20012210
QU16		4822 130 83519	PHOTO UNIT, IR RECIVER	HW10001210
QU17		4822 130 61227	DIG. DTA114ES	BA10007210
QU18		4822 209 31932	IC 74HC125	HC712500B0

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			PU04-MISCELLANEOUS	
SU01		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU02	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU03		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU04	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU05		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU06	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU07		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU08		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU10		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU13				
I		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU19				
SU21		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU23				
I		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU34				
VU01		4822 130 91499	DISPLAY UNIT, FIP12DM8R	HQ31206060
XU01		4822 242 72066	CERMIC VIB. CST8.0MHz	FQ08004010
			PU54-MASTER VOL CIRCUIT BOARD	
			PU54-CAPACITORS	
CU51		4822 126 10364	CER. 100PF ±10%	DA16101110
CU52		4822 126 10364	CER. 100PF ±10%	DA16101110
			PU54-RESISTORS	
RU55		4822 117 10158	1Ω ±5% 1/6W	GG05100140
			PU54-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RU51~RU54, RU57, RU58	
			PU54-SEMICONDUCTORS	
QU51				
I		4822 130 42298	TRS. 2SC536SP	HT30001000
QU54				
			PU54-MISCELLANEUS	
SU55		4822 273 10296	ROTARY SW, MASTER VOL.	SR02010040
			PU94-POWER SW CIRCUIT BOARD (MOMS)	
SU91	U,KKGL	4822 276 12217	PUSH SW, POWER (MOMS)	SP02011570
SU91	/02B,KBL,KGL	4822 276 12512	PUSH SW, POWER (MOMS)	SP02011670
			PV04-DIRECT IN CIRCUIT BOARD	
			PV04-CAPACITORS	
CT06	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CV01				
I		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV06				
CV07		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CV08		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CV13		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV14		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV16	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CV17	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CV18	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CV19 | CV22		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV31 | CV36		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV37		4822 122 40588	CER. 0.022µF ±20%	DA17223110
CV38		4822 126 10935	ELECT 100µF 6.3V	EJ10700610
CV39		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CV40		4822 122 40588	CER. 0.022µF ±20%	DA17223110
CV41		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CV42		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
			PV04-CAPACITORS (COMMON)	
			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V :	
C***			(CV15, CV23~CV28, CV43~CV48,CV50,CV97 [/02B])	
			PLASTIC FILM CAPACITOR, ±5% 50V :	
C***			CV09~CV12	
			PV04-RESISTORS (COMMON)	
			CARBON FILM FIXED RESISTOR, ±5% 1/6W :	
R***			RT19,RV01~RV18,RV21~RV30, RV33~RV46	
			PV04-SEMICONDUCTORS	
DV01		4822 130 32362	DIODE 1SS176	HD20002000
DV02		4822 130 32362	DIODE 1SS176	HD20002000
QV01		4822 209 83631	IC NJM4558DD	HC10008090
QV02		4822 209 83631	IC NJM4558DD	HC10008090
QV03		4822 209 83631	IC NJM4558DD	HC10008090
QV04		4822 209 32553	IC LC78212	HC10309030
QV05		4822 209 83631	IC NJM4558DD	HC10008090
QV06		4822 209 32553	IC LC78213	HC10310030
QV07		4822 209 83631	IC NJM4558DD	HC10008090
			PV04-MISCELLANEOUS	
JV02	/02B		TERMINAL, 6P RCA PIN JACK	YT02060550
JV02	U,KBL KGL,KKGL		TERMINAL, 6P RCA PIN JACK	YT02060510
JV03		4822 267 41009	TERMINAL, 2P RCA PIN JACK	YT02020890
LV04		4822 242 73843	EMI FILTER	FM12223010
LV05		4822 242 73843	EMI FILTER	FM12223010
LV06		4822 242 73843	EMI FILTER	FM12223010
			PW04-H.P CIRCUIT BOARD	
			PW04-CAPACITORS	
CW01	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CW02	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CW03	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
			PW04-MISCELLANEOUS	
JW01	U,KBL /02B	4822 265 10685	JACK, PHONE	YJ01004240
JW01	KGL,KKGL		JACK, PHONE	YJ01004330
			PY04-CONNECT CIRCUIT BOARD	
			PY04-CAPACITORS	
CS91		4822 124 21894	ELECT 10µF 16V	EJ10601610
CS92		4822 124 21894	ELECT 10µF 16V	EJ10601610

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CY01	U,KKGL	4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CY01	KBL,KGL	4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CY02	/02B	4822 126 12867	ELECT 1000µF 6.3V	OA108006Q0
CY02	KBL,KGL	4822 126 12867	ELECT 1000µF 6.3V	OA108006Q0
CY02	U,KKGL	4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CY04		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CY06		4822 122 31205	CER. 47PF ±5%	DD15470300
CY07	KBL,KGL	4822 122 31205	CER. 47PF ±5%	DD15470300
CY07	U,KKGL	4822 122 31205	CER. 47PF ±5%	DD15470300
CY08	KBL,KGL	4822 122 31205	CER. 47PF ±5%	DD15470300
CY08	U,KKGL	4822 122 31205	CER. 47PF ±5%	DD15470300
CY09		4822 122 31205	CER. 47PF ±5%	DD15470300
CY10	KBL,KGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY10	U,KKGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY11	KBL,KGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY11	U,KKGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY12		4822 122 31205	CER. 47PF ±5%	DD15470300
CY13	KBL,KGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY13	U,KKGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY14		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CY15		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY94	U,KKGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CY99	/02B	4822 122 31205	CER. 47PF ±5%	DD15470300
			PY04-RESISTORS (COMMON)	
			CARBON FILM FIXED RESISTOR, ±5% 1/6W :	
R***			RS91, RS92, RY01~RY15, RY18~RY33 (UY97 [/02B])	
			PY04-SEMICONDUCTORS	
DY01 | DY04		4822 130 32362	DIODE 1SS176	HD20002000
DY09		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
DY10		4822 130 32362	DIODE 1SS176	HD20002000
DY11		4822 130 32362	DIODE 1SS176	HD20002000
DY14		4822 130 80316	ZENER 3.6V	HD30361000
QS91		4822 209 83631	IC NJM4558DD	HC10008090
QY01		4822 130 61227	DIG. DTA114ES	BA10001000
QY02		4822 130 42594	DIG. DTC144ES	BA20002000
QY03		4822 130 61227	DIG. DTA114ES	BA10001000
QY04		4822 130 42594	DIG. DTC144ES	BA20002000
QY05		4822 130 61227	DIG. DTA114ES	BA10001000
QY06		4822 130 42594	DIG. DTC144ES	BA20002000
QY07		4822 130 61227	DIG. DTA114ES	BA10001000
QY08		4822 130 42594	DIG. DTC144ES	BA20002000
QY10		4822 209 33024	IC TC9173P	HC10370050
QY11		4822 209 61704	IC TC9174P	HC10250050
QY12		4822 209 14612	IC 74HC541	HC754100B0
QY13		4822 130 42594	DIG. DTC144ES	BA20002000
QY14		4822 130 61227	DIG. DTA114ES	BA10001000
QY15		4822 130 42594	DIG. DTC144ES	BA20002000
			P104-TUNER CIRCUIT BOARD	
			P104-CAPACITORS	
CA01		4822 125 50384	TRIM. 20PF	CT12000200
CA02		4822 122 40306	CER. 0.047µF +80% -20%	DK18473310
CA03		4822 122 31823	CER. 15PF ±5%	DD15150300
CA04		4822 121 42466	FILM 390PF ±5%	DF15391550
CA05		4822 122 31205	CER. 47PF ±5%	DD15470300
CA06		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CA07	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CA08	/02B	4822 125 50384	TRIM. 20PF	CT12000200
CA09	/02B	4822 122 31823	CER. 15PF ±5%	DD15150300
CA11	/02B	4822 122 31349	CER. 68PF ±5%	DD15680300
CA12	/02B	4822 122 10367	CER. 150PF ±5%	DD15151300
CA13	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
CA14	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
CA18		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C201		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C202		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C203		4822 122 40306	CER. 0.047μF +80% -20%	DK18473310
C204		4822 122 40306	CER. 0.047μF +80% -20%	DK18473310
C205		4822 124 23053	ELECT 1μF 50V	EJ10505010
C206		4822 124 21894	ELECT 10μF 16V	EJ10601610
C208		4822 122 40306	CER. 0.047μF +80% -20%	DK18473310
C209		4822 124 23053	ELECT 1μF 50V	EJ10505010
C210		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C211		4822 124 40786	ELECT 2.2μF 50V	EJ22505010
C212		4822 124 23053	ELECT 1μF 50V	EJ10505010
C213		4822 124 23054	ELECT 0.47μF 50V	EJ47405010
C215		4822 122 40306	CER. 0.047μF +80% -20%	DK18473310
C218		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C219		4822 124 21894	ELECT 10μF 16V	EJ10601610
C223		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C224	/02B,KBL,KGL KKGL	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C225		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C226		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C227	/02B,KBL,KGL	4822 121 42466	FILM 390PF±5%	DF15391550
C233		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C234		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C303		4822 124 21894	ELECT 10μF 16V	EJ10601610
C304		4822 124 21894	ELECT 10μF 16V	EJ10601610
C305	/02B,KBL,KGL	4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C306	/02B,KBL,KGL	4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C307	/02B,KBL,KGL	4822 124 21894	ELECT 10μF 16V	EJ10601610
C308	/02B,KBL,KGL	4822 124 21894	ELECT 10μF 16V	EJ10601610
C311		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C312		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C313	/02B,KBL,KGL	4822 124 21894	ELECT 10μF 16V	EJ10601610
C501		4822 122 31205	CER. 47PF ±5%	DD15470300
C502		4822 122 31205	CER. 47PF ±5%	DD15470300
C504		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C505		4822 124 23053	ELECT 1μF 50V	EJ10505010
C506		4822 124 41604	ELECT 0.1μF 50V	EJ10405010
C507		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C511		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C902	/02B	4822 124 21894	ELECT 10μF 16V	EJ10601610
C905	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C906	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
C907	/02B	4822 124 21894	ELECT 10μF 16V	EJ10601610
C908	/02B	4822 124 21894	ELECT 10μF 16V	EJ10601610
C909	/02B	4822 124 21899	ELECT 4.7μF 25V	EJ47502510
C910	/02B	4822 124 21894	ELECT 10μF 16V	EJ10601610
C911	/02B	4822 122 30103	CER. 0.022μF +80% -20%	DK18223310
C915	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310
			P104-CAPACITORS (COMMON)	
C***			ELECTROLYTIC CAPACITOR, ±20% : C207, C214, C216,(C314 [/02B, KBL,KGL]) C503, C508, (C901 [/02B])	

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
C***			PLASTIC FILM CAPACITOR, ±5% 50V : (C217 [/02B,U]) C301, C302 (C309, C310 [KBL,KGL]) (C912, C913, C914 [/02B])	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : (C217 [KBL,KGL,KKGL]) C220,C222 (C227[/02B,U]) (C315~C318[/02B]) C509, C510 (C903,C904[/02B])	
			P104-RESISTORS	
RA11		4822 100 11352	22K Ω (B) TRIM.	RA02230780
R207		4822 050 21801	180 Ω ±5% 1/4W	GG05181140
R211		4822 100 11352	22K Ω (B) TRIM.	RA02230780
R212		4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R217	/02B	4822 050 21801	180 Ω ±5% 1/4W	GG05181140
R217		4822 116 83929	220 Ω ±5% 1/4W	GG05221140
R218	/02B,KBL,KGL	4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R313	/02B,KBL,KGL	4822 116 83929	220 Ω ±5% 1/4W	GG05221140
R512		4822 053 10271	270 Ω ±5% 1W	GA05271010
R514		4822 052 10479	47 Ω ±5% 1/6W	GG05470160
R906		4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R910		4822 053 10221	220 Ω ±5% 1W	GA05221010
			P104-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RA01, RA02, (RA03, RA04, RA06~RA09,R102,R103[/02B]) (R201[U]) R202~R206,R208 R209,R210,R213~R216,R219, R307~R310 (R301~R306,R311, R312 [/02B,KBL,KGL]) R501~R504,R506,R507,R508, R510,R511,R513,R515,R516, R517 (R901~R905,R907,R908, R909,R911 [/02B])	
			P104-SEMICONDUCTORS	
DA01		4822 125 50416	VARICAP SVC342-L	HD40009030
DA02	/02B	4822 130 33697	DIODE 1SS135	HD20017210
DA03	/02B	4822 125 50416	VARICAP SVC342-L	HD40009030
DA04	/02B	4822 130 33697	DIODE 1SS135	HD20017210
DA05		4822 130 32362	DIODE 1SS176	HD20002000
DA06		4822 130 32362	DIODE 1SS176	HD20002000
D201		4822 130 32362	DIODE 1SS176	HD20002000
D202		4822 130 80318	ZENER 6.8V	HF30681000
D501		4822 130 80317	ZENER 5.1V	HD30511000
D901	/02B	4822 130 80317	ZENER 5.1V	HD30511000
QA01	/02B	4822 209 42298	TRS. 2SC536SP	HT30001000
QA02	/02B	4822 209 42298	TRS. 2SC536SP	HT30001000
QA03	/02B	4822 209 61892	TRS. 2SD2144S (U, V)	HT421442A0
QA04	/02B	4822 209 42682	DIG. DTA144ES	BA10002000
QA04	/02B	4822 209 42682	DIG. DTA144ES	BA10002000
Q201		4822 209 90535	IC LA1836	HC10342030
Q202		4822 130 62294	TRS. 2SC1809SP	HT318091P0
Q203		4822 130 61227	DIG. DTA114ES	BA10007210
Q204		4822 130 42594	DIG. DTC144ES	BA20002000

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
Q301	/02B,KBL,KGL	4822 209 83631	IC NJM4558DD	HC10008090
Q501		4822 209 30178	IC LC7218	HC10221030
Q502		4822 130 42121	F.E.T. 2SK30ATM	HF200300B0
Q503		4822 130 42298	TRS. 2SC536SP	HT30001000
Q901	/02B	4822 209 32706	IC LA2232	HC10315030
Q902	/02B	4822 209 33818	IC LC7073	HC10333030
Q903	/02B	4822 130 42298	TRS. 2SC536SP	HT30001000
			P104-MISCELLANEOUS	
A101	/02B	4822 210 10372	VHF TUNER, FE415-G11	AV01202210
A101		4822 210 10397	VHF TUNER, FE337-A05	AV01202220
F201	/02B,KBL,KGL	4822 242 70665	CER. FILTER	FF11070620
F201	U,KKGL	4822 242 70911	CER. FILTER	FF11070610
F202		4822 242 70665	CER. FILTER	FF11070620
J101	/02B,KBL,KGL	4822 290 81632	TERMINAL, ANT	YT03030020
J101	U ,KKGL	4822 290 81537	TERMINAL, ANT	YT03030080
LA01		4822 157 63084	ANT COIL, MW 280μH	LA10295170
LA02		4822 157 70779	OSC COIL, MW	LO70013010
LA03	/02B	4822 157 52714	ANT COIL, LW	LA10295160
LA04	/02B	4822 157 70781	OSC COIL, LW	LO70013020
LA05		4822 157 53589	CHOKE COIL, 39mH	LC23960710
LA06		4822 242 71509	CER. FILTER	FF10045330
L201		4822 157 63904	I.F.T.COIL, FM DET	LI70376010
L301		4822 157 71737	M.P.X.COIL, 19.38KHz	LS10293020
L302		4822 157 71737	M.P.X.COIL, 19.38KHz	LS10293020
L501 | L504		4822 157 70813	CHOKE COIL, 47μH	LC14733800
S301	KBL,KGL	4822 277 21712	SLIDE SW	SS02021470
X201		4822 242 81608	CERAMIC VIB.	FQ04563040
X501		4822 242 72333	CRYSTAL, 7.2MHz	JX07001260
X901	/02B	4822 242 81608	CERAMIC VIB.	FQ04563040
X902	/02B	4822 242 72527	CERAMIC VIB. 4.00MHz	FQ04004030
			P604-THX PRO-LOGIC DSP CIRCUIT BOARD	
			P604-CAPACITORS	
CR01		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR02		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR03		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR04		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR05		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR06		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR07		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR08		4822 126 11583	CER. 0.01μF ±10%	DK96103200
CR09		4822 124 11074	ELECT 10μF 16V	EY10601620
CR10		4822 124 11074	ELECT 10μF 16V	EY10601620
CR11		4822 122 33744	CER. 100PF ±5%	DD95101300
CR12		4822 122 33744	CER. 100PF ±5%	DD95101300
CR13		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR14		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR15		4822 126 11695	CER. 330PF ±5%	DD95331300
CR16		4822 126 11695	CER. 330PF ±5%	DD95331300
CR17		4822 122 33753	CER. 150PF ±5%	DD95151300
CR18		4822 122 33753	CER. 150PF ±5%	DD95151300
CR19		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR20		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR31		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR32		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR33		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR34		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR35		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR36		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR37		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR38		4822 126 11583	CER. 0.01μF ±10%	DK96103200
CR39		4822 124 11074	ELECT 10μF 16V	EY10601620
CR40		4822 124 11074	ELECT 10μF 16V	EY10601620
CR41		4822 122 33744	CER. 100PF ±5%	DD95101300
CR42		4822 122 33744	CER. 100PF ±5%	DD95101300
CR43		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR44		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR45		4822 126 11695	CER. 330PF ±5%	DD95331300
CR46		4822 126 13837	CER. 0.1μF ±10%	DK96104200
CR47		4822 122 33753	CER. 150PF ±5%	DD95151300
CR48		4822 126 13396	CER. 0.047μF ±10%	DK96473200
CR49		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR50		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR61		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR62		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR63		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR64		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR65		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR66		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR67		4822 124 10772	ELECT 100μF 6.3V	EY10700620
CR68		4822 126 11583	CER. 0.01μF ±10%	DK96103200
CR69		4822 124 11074	ELECT 10μF 16V	EY10601620
CR70		4822 124 11074	ELECT 10μF 16V	EY10601620
CR71		4822 122 33744	CER. 100PF ±5%	DD95101300
CR72		4822 122 33744	CER. 100PF ±5%	DD95101300
CR73		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR74		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR75		4822 126 11695	CER. 330PF ±5%	DD95331300
CR76		4822 126 11695	CER. 330PF ±5%	DD95331300
CR77		4822 122 33753	CER. 150PF ±5%	DD95151300
CR78		4822 122 33753	CER. 150PF ±5%	DD95151300
CR79		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
CR80		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C601		4822 124 11074	ELECT 10μF 16V	EY10601620
C602		4822 124 11074	ELECT 10μF 16V	EY10601620
C603 | C606		4822 122 33753	CER. 150PF ±5%	DD95151300
C607 | C612		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C617		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C618		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C619		4822 126 11696	CER. 470PF ±5%	DD95471370
C620		4822 126 11696	CER. 470PF ±5%	DD95471370
C621		4822 124 11074	ELECT 10μF 16V	EY10601620
C622		4822 124 11074	ELECT 10μF 16V	EY10601620
C623		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C624		4822 124 10772	ELECT 100μF 6.3V	EY10700620
C625		4822 124 10772	ELECT 100μF 6.3V	EY10700620
C626		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C627		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C628		4822 124 10772	ELECT 100μF 6.3V	EY10700620
C629		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C630		4822 124 10772	ELECT 100μF 6.3V	EY10700620
C631		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200
C635 | C638		4822 126 11583	CER. 0.01μF ±10%	DK96103200
C651		4822 126 11687	CER. 0.1μF +80% -20%	DK98104200

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
C652		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C653		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C654		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C655		4822 122 33741	CER. 10PF ±0.5PF	DD91100300
C656		4822 126 11663	CER. 12PF ±5%	DD95120300
C657		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C658		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C659		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C660		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C661		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C662		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C663		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C664		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C665		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C666		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C667		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C668		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C671		4822 124 11074	ELECT 10µF 16V	EY10601620
C672		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C673		4822 124 11074	ELECT 10µF 16V	EY10601620
C676		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C677		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C678		4822 122 33744	CER. 100PF ±5%	DD95101300
C679		4822 122 33744	CER. 100PF ±5%	DD95101300
			P604-RESISTORS, CHIP	
C641		4822 116 82487	0Ω ±5% 1/16W	NN05000610
C642		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR01		4822 051 30682	6.8KΩ ±5% 1/16W	NN05682610
RR02		4822 051 30682	6.8KΩ ±5% 1/16W	NN05682610
RR03		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
RR04		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
RR05 | RR10		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR21		4822 051 30682	6.8KΩ ±5% 1/16W	NN05682610
RR22		4822 051 30682	6.8KΩ ±5% 1/16W	NN05682610
RR23		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
RR24		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
RR25		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR26		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR27		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR28		4822 051 30273	27KΩ ±5% 1/16W	NN05273610
RR29		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR30		4822 051 30273	27KΩ ±5% 1/16W	NN05273610
RR41		4822 051 30473	47KΩ ±5% 1/16W	NN05473610
RR42		4822 051 30473	47KΩ ±5% 1/16W	NN05473610
RR43 | RR46		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
RR47 | RR50		4822 051 30223	22KΩ ±5% 1/16W	NN05223610
RR71		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR74		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR75		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR76		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR78		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR79		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR81		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR82		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RR85		4822 116 82487	0Ω ±5% 1/16W	NN05000610

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
R601		4822 051 30102	1KΩ ±5% 1/16W	NN05102610
R602		4822 051 30102	1KΩ ±5% 1/16W	NN05102610
R603		4822 051 30473	47KΩ ±5% 1/16W	NN05473610
R604		4822 051 30473	47KΩ ±5% 1/16W	NN05473610
R605 | R614		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
R615		4822 051 30221	220Ω ±5% 1/16W	NN05221610
R616		4822 051 30221	220Ω ±5% 1/16W	NN05221610
R617		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
R618		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
R619		4822 051 30221	220Ω ±5% 1/16W	NN05221610
R620		4822 051 30221	220Ω ±5% 1/16W	NN05221610
R621		4822 051 30103	10KΩ ±5% 1/16W	NN05103610
R622		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R661		4822 051 30222	2.2KΩ ±5% 1/16W	NN05222610
R662		4822 051 30222	2.2KΩ ±5% 1/16W	NN05222610
R666		4822 051 30222	2.2KΩ ±5% 1/16W	NN05222610
R667		4822 051 30222	2.2KΩ ±5% 1/16W	NN05222610
R673		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R674		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R697		4822 051 30104	100KΩ ±5% 1/16W	NN05104610
R698		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R699		4822 116 82487	0Ω ±5% 1/16W	NN05000610
L606		4822 116 82487	0Ω ±5% 1/16W	NN05000610
L607		4822 111 90972	0Ω ±5% 1/8W	RI05000180
			P604-SEMICONDUCTORS	
Q601		4822 209 14613	IC LC83016JE	HC10359030
Q602		4822 209 14866	IC LC83017JE	HC10360030
Q603		4822 209 91009	IC LC32464PM-80	HC10338030
Q604		4822 209 91009	IC LC32464PM-80	HC10338030
Q605		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q606		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q607		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q608		4822 209 14865	IC AK5389 (ADC)	HC10016480
Q609 | Q612		4822 209 14615	IC NJM2115M	HC10172090
Q613 | Q618		4822 209 71451	IC NJM4558M (Y)	HC10011090
Q622		4822 209 31903	IC NJM79L05UA	HC99005090
Q623		4822 130 60146	DIG. DTC144EK	BA20004210
			P604-MISCELLANEOUS	
L601		4822 157 70322	EMI FILTER	FM32102010
L602 | L605		4822 157 10884	EMI FILTER	FN31000010
X671		4822 242 81793	OTHER VIB. 22.5792MHz	FZ02255030
			P704-MAIN AMP CIRCUIT BOARD	
			P704-CAPACITORS	
CN04	/02B	4822 124 21982	ELECT 3.3µF 50V	EJ33505010
CN04		4822 124 40786	ELECT 2.2µF 50V	EJ22505010
CN05		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CN06		4822 124 23056	ELECT 47µF 16V	EJ47601610
CN07		4822 124 23056	ELECT 47µF 16V	EJ47601610
CN08		4822 124 23053	ELECT 1µF 50V	EJ10505010
CN09		4822 126 10935	ELECT 100µF 10V	EJ10701010
CN10		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CN11		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CN15	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CN16	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C701		4822 124 22275	ELECT 47µF 10V	OA47601020
C702		4822 124 22275	ELECT 47µF 10V	OA47601020
C703	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300
C704	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300
C709			ELECT 1µF 100V	EA10510010
C710			ELECT 1µF 100V	EA10510010
C711		4822 124 23562	ELECT 10µF 100V	OA10610020
C712		4822 124 23562	ELECT 10µF 100V	OA10610020
C715		4822 122 31205	CER. 47PF ±5%	DD15470300
C716		4822 122 31205	CER. 47PF ±5%	DD15470300
C719 | C722		4822 124 40751	ELECT 470µF 63V	OA47706320
C723 | C726		4822 124 90351	ELECT 0.1µF 50V	OA10405020
C751		4822 124 22275	ELECT 47µF 10V	OA47601020
C752	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300
C756		4822 124 23562	ELECT 10µF 100V	OA10610020
C758		4822 122 31205	CER. 47PF ±5%	DD15470300
C759			ELECT 1µF 100V	EA10510010
C760		4822 124 40751	ELECT 470µF 63V	OA47706320
C761		4822 124 40751	ELECT 470µF 63V	OA47706320
C762		4822 124 41604	ELECT 0.1µF 50V	EJ10405010
C763		4822 124 41604	ELECT 0.1µF 50V	EJ10405010
▲C801		4822 126 12453	CER. 0.01µF +80% -20%	DK18103560
▲C802		4822 124 11846	ELECT 27000µF 63V	OB27906310
▲C803		4822 124 11846	ELECT 27000µF 63V	OB27906310
▲C804		4822 126 12453	CER. 0.01µF +80% -20%	DK18103560
▲C805		4822 124 11847	ELECT 10000µF 63V	EB10906380
▲C806		4822 124 11847	ELECT 10000µF 63V	EB10906380
C807		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C808		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C811		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C812		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C815		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C816		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C820		4822 122 40586	CER. 0.01µF ±20%	DA17103110
C824		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C899		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
			P704-CAPACITORS (COMMON)	
$\underline{\text{C***}}$			HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : (CN13,CN14,C703~C706,C752 [/02B]) C713,C714,C753,C757	
$\overline{\text{C***}}$			ELECTOROLYTIC CAPACTOR, ±20% : CN03, C707, C708, C754, C809, C810, C813, C814, C817, C818, C821, C822, C823, C825~C829	
			P704-RESISTORS	
▲RN01		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
▲RN02		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
▲RN20		4822 050 22262	2.2KΩ ±5% 1/6W	GG05222140
▲RN27		4822 053 10561	560Ω ±5% 1/6W	GA05561010
▲RN28		4822 053 10561	560Ω ±5% 1/6W	GA05561010

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
▲RN35		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲RN43 | ▲RN46		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲RN51		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
▲RN57		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲RN58		4822 052 10101	100Ω ±5% 1/6W	GG05101160
RN63		4822 101 11664	100Ω (B), TRIM.	RA01010780
RN64		4822 101 11664	100Ω (B), TRIM.	RA01010780
RN70		4822 101 11664	100Ω (B), TRIM.	RA01010780
▲R723 | ▲R726		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R729 | ▲R732		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R737 | ▲R740		4822 052 10569	56Ω ±5% 1/6W	GG05560160
R743		4822 100 20681	2.2KΩ (B), TRIM.	RA02220780
R744		4822 100 20681	2.2KΩ (B), TRIM.	RA02220780
▲R749 | ▲R752		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲R753		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲R754		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲R755 | ▲R758		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲R759		4822 113 80612	0.18Ω 5W x 2 ARRAY	BZ10182020
▲R760		4822 113 80612	0.18Ω 5W x 2 ARRAY	BZ10182020
▲R761		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲R762		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲R763		4822 053 10109	10Ω ±5% 1W	GA05100010
▲R764		4822 053 10109	10Ω ±5% 1W	GA05100010
▲R776		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R777		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R779		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R780		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲R783		4822 052 10569	56Ω ±5% 1/6W	GG05560160
▲R784		4822 052 10569	56Ω ±5% 1/6W	GG05560160
R786		4822 100 20681	2.2KΩ (B), TRIM.	RA02220780
▲R789		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲R790		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲R791		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲R792		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲R793		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲R794		4822 113 80612	0.18Ω 5W x 2 ARRAY	BZ10182020
▲R795		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲R796		4822 053 10109	10Ω ±5% 1W	GA05100010
▲R801 | ▲R804	U,KBL KGL,KKGL	4822 117 10158	1Ω ±5% 1/4W	GG05010140
▲U700 | ▲U703	/02B	4822 117 10158	1Ω ±5% 1/4W	GG05010140

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			P704-RESITORS (COMMON)	
R***			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RN03~RN08,RN10~RN16, RN21~RN26,RN30~RN33,RN36 RN41,RN42,RN52~RN56,RN61, RN62,R701~R722,R727,R728, R733,R734,R741,R742, R745~R748,R765~R775,R778, R781,R785,R787,R788,R797, R798,R799	
			P704-SEMICONDUCTORS	
DN01 | DN04		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
DN07		4822 130 80837	DIODE HSS81TD	HD20027010
DN08		4822 130 80837	DIODE HSS81TD	HD20027010
DN09		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
DN51		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
DN52		4822 130 80837	DIODE HSS81TD	HD20027010
D701 | D704		4822 130 32362	DIODE 1SS176	HD20002000
D705 | D708		4822 130 80837	DIODE HSS81TD	HD20027010
D709 | D712		4822 130 31554	ZENER 4.3V	HD30431000
D751		4822 130 32362	DIODE 1SS176	HD20002000
D752		4822 130 32362	DIODE 1SS176	HD20002000
D753		4822 130 80837	DIODE HSS81TD	HD20027010
D754		4822 130 80837	DIODE HSS81TD	HD20027010
D755		4822 130 31554	ZENER 4.3V	HD30431000
D756		4822 130 31554	ZENER 4.3V	HD30431000
⚠D801		4822 130 33133	DIODE D5FB20	HE20012290
⚠D802		4822 130 33133	DIODE D5FB20	HE20012290
⚠D803		4822 130 33057	DIODE S2VB20	HE20011290
⚠D804		4822 130 33057	DIODE S2VB20	HE20011290
D805 | D809		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
⚠QN01		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
⚠QN02		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
QN03		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
QN04		4822 209 83312	IC TA7317P	HC10042050
QN07		4822 130 42715	TRS. 2SA608SP	HT10001000
QN08		4822 130 60969	TRS. 2SC1627 (O,Y)	HT316272B0
⚠QN51		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
Q701 | Q706		4822 130 42949	TRS. 2SA970 (GR, BL)	HT109702A0
Q707 | Q710		4822 130 43283	TRS. 2SC2705 (O,Y)	HT327052A0
Q711		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
Q712		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
Q713		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
Q714		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
Q715		4822 130 60117	TRS. 2SC3419Y	HT334191Y0
Q716		4822 130 60117	TRS. 2SC3419Y	HT334191Y0

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
⚠Q717		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
⚠Q718		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
⚠Q719		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
⚠Q720		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
⚠Q721		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
⚠Q722		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
⚠Q723		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
⚠Q724		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
Q751		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q752		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q753		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q754		4822 130 43283	TRS. 2SC2705 (O, Y)	HT327052A0
Q755		4822 130 43283	TRS. 2SC2705 (O, Y)	HT327052A0
Q756		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
Q757		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
Q758		4822 130 60117	TRS. 2SC3419Y	HT334191Y0
⚠Q759		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
⚠Q760		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
⚠Q761		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
⚠Q762		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
⚠Q801		4822 209 83317	IC NJM7815FA	HC38915090
⚠Q802		4822 209 31864	IC NJM7915FA	HC39915090
⚠Q803		4822 209 31631	IC NJM7805FA	HC38905090
⚠Q804		4822 209 63179	IC NJM7905FA	HC39905090
⚠Q805		4822 209 31631	IC NJM7805FA	HC38905090
			P704-MISCELLANEOUS	
⚠LN01		4822 280 10305	RELAY	LY20180020
⚠LN02		4822 280 10305	RELAY	LY20180020
⚠LN03		4822 280 20501	RELAY	LY20240410
⚠LN51		4822 280 10305	RELAY	LY20180020
L701		4822 157 70022	AIR COIL, SPK CHOCK	ML08010030
L702		4822 157 70022	AIR COIL, SPK CHOCK	ML08010030
L751		4822 157 70022	AIR COIL, SPK CHOCK	ML08010030
			P754-SPK TERMINAL CIRCUIT BOARD	
			P754-CAPACITORS	
C727 | C730	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C731	/02B	4822 122 30103	CER. 0.022µF +80% -20%	DK18223310
C732	/02B	4822 122 30103	CER. 0.022µF +80% -20%	DK18223310
C733	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C734	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C764	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C765	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
			P754-MISCELLANEOUS	
J704		4822 290 61179	TERMINAL, SPK 8P	YT01080120
J751		4822 290 61219	TERMINAL, SPK 2P	YT01020220

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original pats should be used to replaced any part marked with symbol ⚠. Any other component substitution (other than original type). may increase risk of fire or electrical shock hazard.